

# marantz®



V31566

## Model DV7000 User Guide

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DVD Player

CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

## ENGLISH

### WARRANTY

For warranty information, contact your local Marantz distributor.

### RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes of when corresponding with Marantz.

### IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

### FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

## FRANÇAIS

### GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

### CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

### IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

## DEUTSCH

### GRANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

### HEBEN SIE IHRE QUITTUNG GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihre wertvolle Anschaffung. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

### WICHTIG!

Bei Garantieforderungen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

## NEDERLANDS

### GRANTIE

Voor inlichtingen omtrent garantie dient u zich te wenden tot uw plaatselijke Marantz-handelaar.

### UW KWITANTIE, KASSABON E.D. BEWAREN

Uw Kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing, b.v. in verband met verzekering of bij correspondentie met Marantz.

### BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur is zijn voldoende bewijs.

## ITALIANO

### CONDIZIONI DI GARANZIA

L'apparecchio è garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non passano riferirsi a difetti di funzionamento dell'apparecchio.

Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 - numero verde).

## PORTUGUÊS

### GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

### GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

### IMPORTANTE

Quando procurar assistência técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

## ESPAÑOL

### GARANTÍA

Para información sobre las Condiciones de Garantía, sírvase consultar el Certificado que encontrará en el interior del embalaje del equipo.

### CONSERVE EL COMPROBANTE DE LA COMPRA

La factura es el comprobante de la adquisición de un producto valioso. Consérvela en lugar seguro para poder consultarla en caso necesario.

### IMPORTANTE

Para disponer de servicios cubiertos por la garantía, el usuario deberá acreditar la fecha y el lugar de adquisición del equipo. La factura o recibo de la compra constituyen un comprobante válido a tal efecto.

## Introduction

**FOREWORD****FOREWORD**

This section must be read carefully before any connection is made to the mains supply.

**WARNINGS**

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not insert anything into the equipment through the ventilation holes.
- Do not handle the mains lead with wet hands.
- Make a space of about 0.1 meter around the unit.

**CE marking**

This product is in conformity with the EMC directive and low-voltage directive.

**EQUIPMENT MAINS WORKING SETTING**

Your Marantz product complies with the household power and safety requirements in your area.

**IMPORTANT: (FOR UK version only)**

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.


If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

**NOTE :** The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

**HOW TO CONNECT A PLUG**

The wires in the mains lead are coloured in accordance with the following code:

- BLUE—"NEUTRAL" ("N")
- BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol  or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

**PRECAUTIONS**

The following precautions should be taken when operating the equipment.

**GENERAL PRECAUTIONS**

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration-free surface.
- it will not be exposed to excessive heat, cold, moisture or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead; grasp the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

## Introduction

# Precautions

## Notes on Handling

- When shipping the DVD video player, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD video player. Do not leave rubber or plastic products in contact with the DVD video player for a long time. They will leave marks on the cabinet.
- The top and rear panels of the DVD video player may become warm after a long period of use. This is not a malfunction.
- When the DVD video player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the DVD video player for a long time, the unit may not function properly in the future. Use the DVD video player occasionally.

## Notes on Location

- When you place this DVD video player near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD video player away from the TV, radio, or VCR.

## Notes on Cleaning

Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring the cloth well, and wipe the unit. Use a dry cloth to wipe it dry.  
Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the DVD video player.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

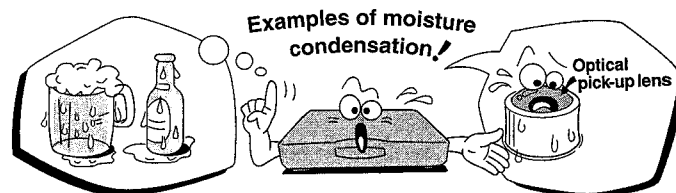
## To Obtain a Clear Picture

The DVD video player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

## Notes on Moisture Condensation

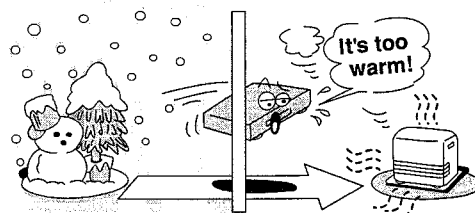
**Moisture condensation damages the DVD video player. Please read the following carefully.**

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD video player.



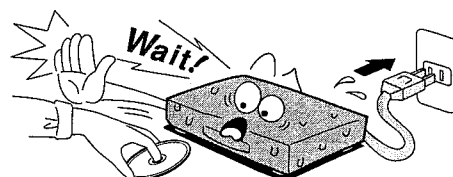
### ■ Moisture condensation occurs during the following cases.

- When you bring the DVD video player directly from a cold place to a warm place.
- When you use the DVD video player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD video player in a hot and humid place just after you move the unit from an air conditioned room.



### ■ Do not use the DVD video player when moisture condensation may occur.

If you use the DVD video player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD video player to the wall outlet, turn on the DVD video player, and leave it on for two or three hours. After two or three hours, the DVD video player will have warmed up and evaporated any moisture. Keep the DVD video player connected to the wall outlet and moisture condensation will seldom occur.



## Introduction

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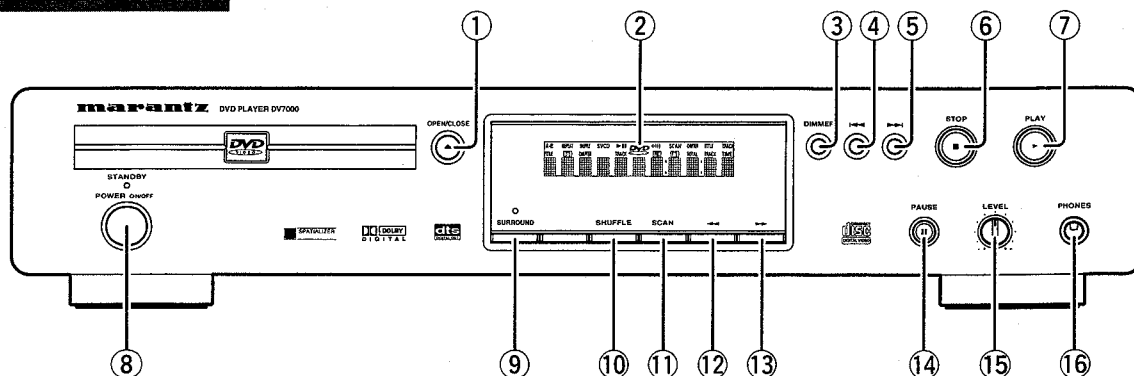
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# Identification of Controls

## Front Panel/DVD Display/Rear Panel

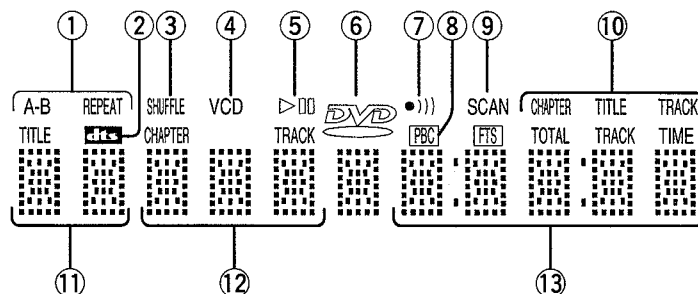
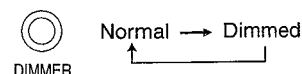
### Front Panel



- |                     |                         |
|---------------------|-------------------------|
| ① Open/close button | ⑨ SURROUND button       |
| ② DISPLAY           | ⑩ SHUFFLE button        |
| ③ DIMMER button     | ⑪ SCAN button           |
| ④ PREVIOUS button   | ⑫ REVERSE SEARCH button |
| ⑤ NEXT button       | ⑬ FORWARD SEARCH button |
| ⑥ STOP button       | ⑭ PAUSE/STEP button     |
| ⑦ PLAY button       | ⑮ LEVEL volume control  |
| ⑧ Power switch      | ⑯ PHONES Jack           |

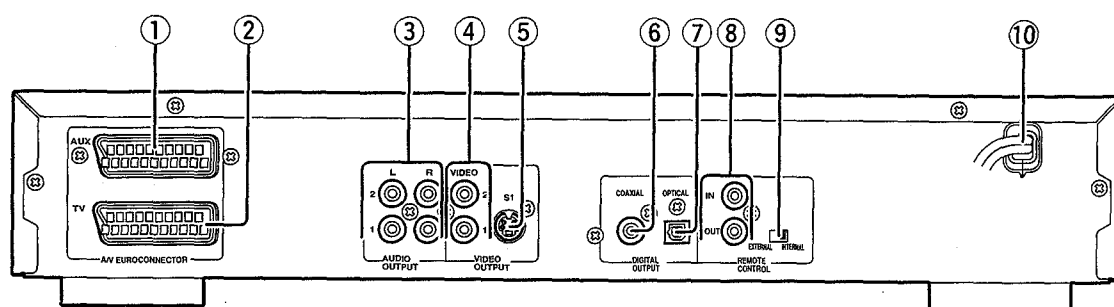
### DVD Display

■ Pressing of the DIMMER button changes the brightness of the display.



- |                              |   |
|------------------------------|---|
| ① A-B REPEAT indicators      | ⑧ PBC indicator                         |
| ② DTS indicator              | ⑨ SCAN indicator                        |
| ③ SHUFFLE indicator          | ⑩ CHAPTER/TITLE/TRACK Repeat indicators |
| ④ VCD indicator              | ⑪ TITLE number indicator                |
| ⑤ Operating status indicator | ⑫ CHAPTER/TRACK number indicator        |
| ⑥ DVD indicator              | ⑬ TOTAL/TRACK TIME indicators           |
| ⑦ Remote Control indicator   |   |

# Rear Panel



① A/V EUROCONNECTOR (AUX):

for connection to your VCR

② A/V EUROCONNECTOR (TV):

for connection to a TV

③ Analog audio out (L/R) jacks

④ Video out jacks

⑤ S Video out jack

⑥ BITSTREAM/PCM Coaxial digital audio out jack

⑦ BITSTREAM/PCM Optical digital audio out jack

⑧ REMOTE Control in/out jacks

⑨ REMOTE Control external/internal switch

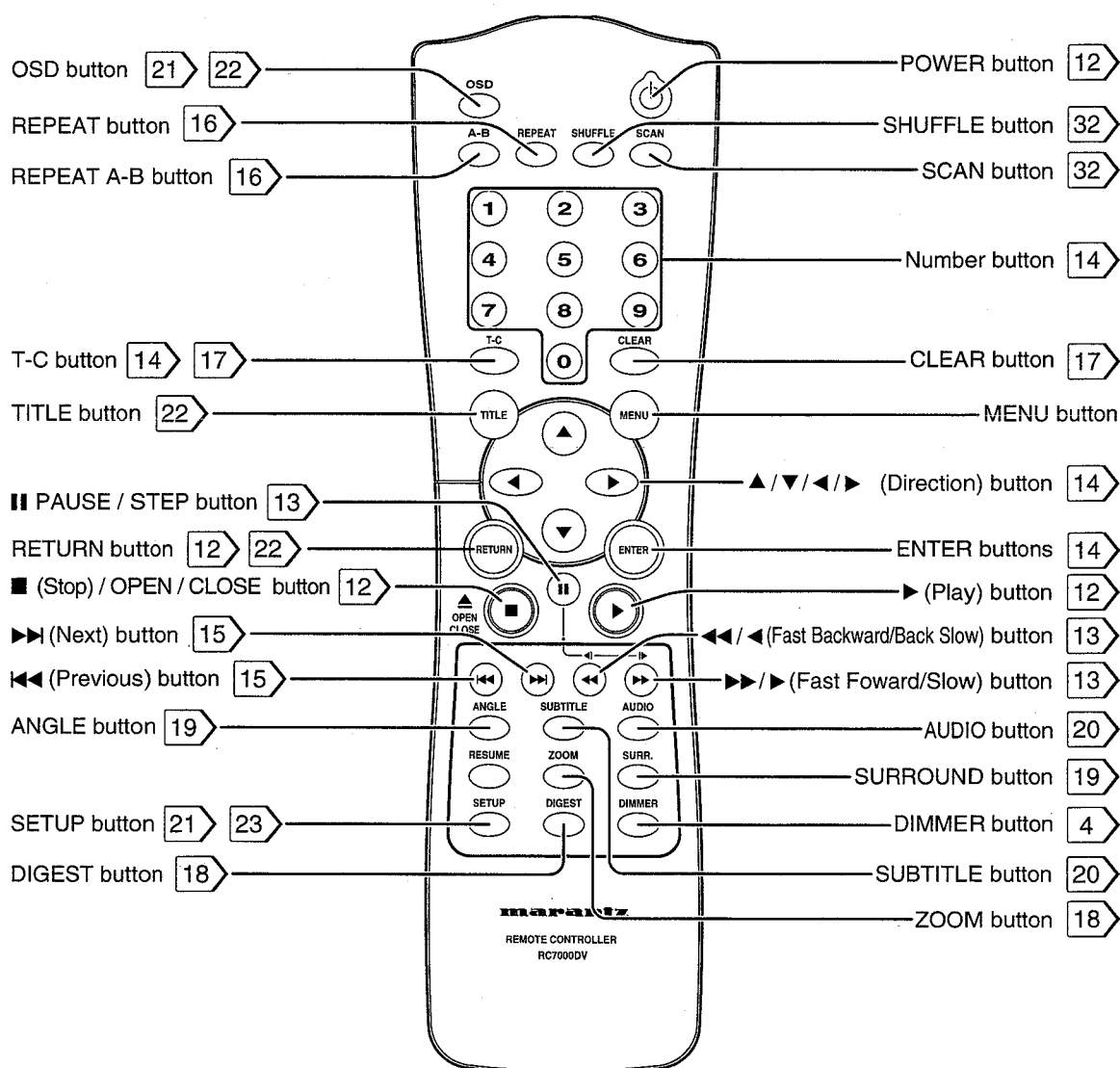
⑩ Power cord

Introduction

# Identification of Controls (continued)


The instructions in this manual describe the functions on the remote control.  
See the page number inside the  for details.

## Remote Control



RESUME button is not used for this DVD player.

**\* MENU button**

Use the MENU button to display the menu screen included on DVD video discs. To operate a menu screen, follow the instructions in "DVD Disc Menu" (page ).

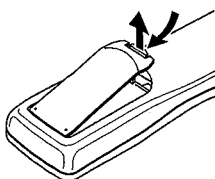


## Preparing the Remote Control

Insert the batteries into the remote control so you can use it to operate the DVD video player.

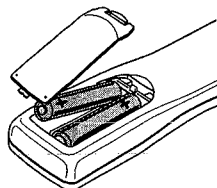
1

Open the cover.



2

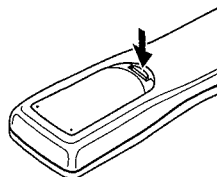
Insert batteries (AA).



Make sure to match the + and – on the batteries to the marks inside the battery compartment.

3

Close the cover.



### Notes on batteries

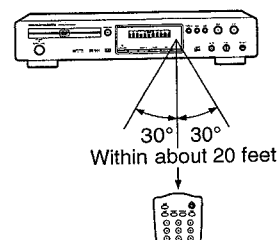
Improper use of batteries may cause battery leakage and corrosion. To operate the remote control correctly, follow the instructions below.

- Do not insert the batteries into the remote control in the wrong direction (follow the +/– signs).
- Do not charge, heat, open, or short-circuit the batteries. Do not throw the batteries into a fire.
- Do not leave dead or exhausted batteries in the remote control.
- Do not use different types of batteries together, or mix old and new batteries.
- If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.
- If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.

## Operating with the Remote Control

This section shows you how to use the remote control.

Point the remote control at the remote sensor and press the buttons.



Distance: About 20 feet from the front of the remote sensor

Angle: About 30° in each direction of the front of the remote sensor

\* Do not expose the remote sensor of the DVD video player to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the DVD video player with the remote control.

### Notes on the remote control

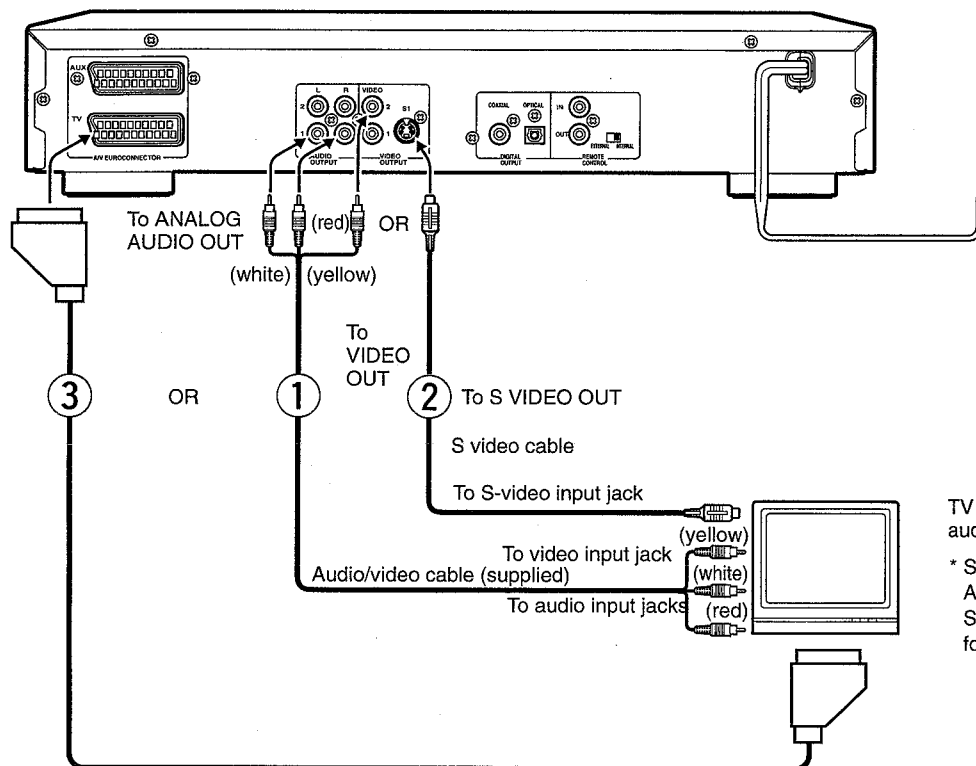
- Point the remote control at the remote sensor of the DVD video player.
- Do not drop the remote control.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water into or put anything wet on the remote control.
- Do not open the remote control.

Connections

# Connecting to a TV

Connect the DVD video player to your TV.

## Connecting to a TV



TV or monitor with audio/video input jacks

\* Set your TV to accept Auxiliary (Line) input. See your TV owner's manual for details.

If your TV has an RF (Antenna In) jack only, use an RF modulator (not supplied) to connect the DVD player to your TV.

### ■ SCART-OUT connector (Connection Type 3)

Connect the Euroconnector to the corresponding connector on the TV using Euroconnector cable.

There are 3 types of modes for the SCART connection (CVBS, S-VIDEO and RGB), you must select one from the SCART OUTPUT MODE on page 29. Please refer to your TV's operator manual as to which setting you should use.

If your TV is not equipped with a Euroconnector you can select S-video out connection (Type 2) or Audio/Video out connection (Type 1).

### ■ S-Video Out Connector (Connection Type 2)

The S-video connection allows separate color and brightness signals to be transmitted. If your TV is equipped with an S-video input, clearer picture reproduction is possible by connecting the TV's S-video input terminal.

### Notes

- Refer to the owner's manual of the connected TV as well.
- When you connect the DVD video player to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input jack, use a Y cable adapter (not supplied) to connect to your TV.
- Connect the DVD video player directly to your TV. If you connect the DVD video player to a VCR, TV/VCR combination or video selector, the playback picture may be distorted as DVD video discs are copy protected.
- If you use the S-video connection ②, connect the Audio L/R output except Video output (Type 1).
- If you use only connection ①, you do not need to use connection ②, ③.
- Please refer to page 24 for TV picture setting.

Connections

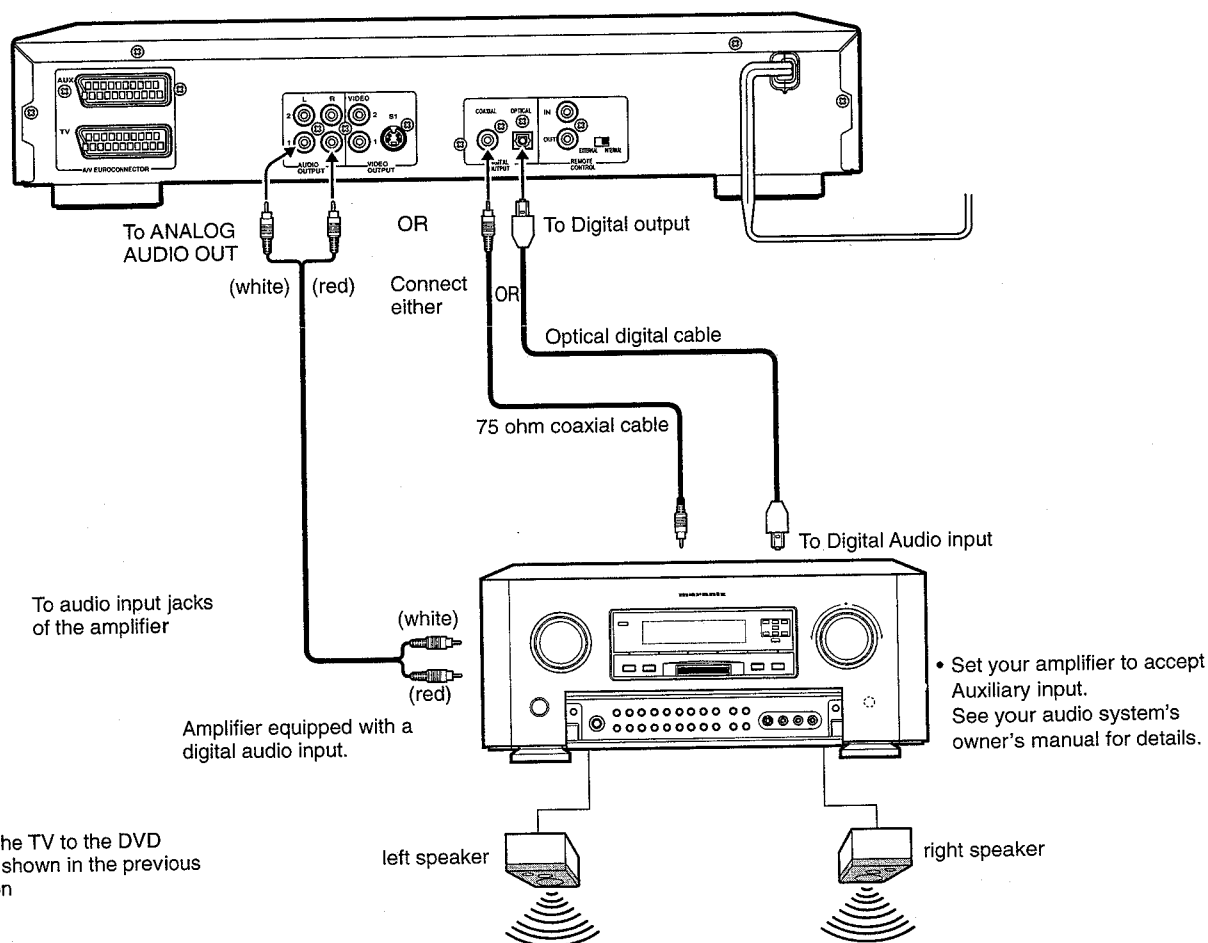
# Connecting to an Audio System

You can listen to the sound of the discs in Two-channel stereo.

## Connecting to an Audio System

### ■ When listening to digital audio output (optical output and coaxial out put)

When the connected amplifier is an amplifier with a digital audio input, set the "DOLBY DIGITAL" and "MPEG" setting of "DIGITAL OUTPUT" to PCM and set the "DTS" setting to OFF (see page 27).



- Connect the TV to the DVD player as shown in the previous connection

### Notes

- Refer to the owner's manual of the connected equipment (TV, audio system) as well.
- When you connect the DVD video player to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- If you place the DVD video player near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD video player away from the tuner and radio.
- The output sound of the DVD video player has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD video player's power cord. If you leave the amplifier power on, the speakers may be damaged.
- To produce 96kHz analog audio out put signals, select OFF on PCM 96kHz of DIGITAL OUTPUT (see page 27).


## Connections

# Connecting to Optional Equipment

You can enjoy the high quality dynamic sound of Dolby Digital (AC-3), DTS and Dolby Pro Logic.

## Dolby Digital (AC-3) Sound and DTS Sound

### Dolby Digital Surround (AC-3/5.1-ch.)

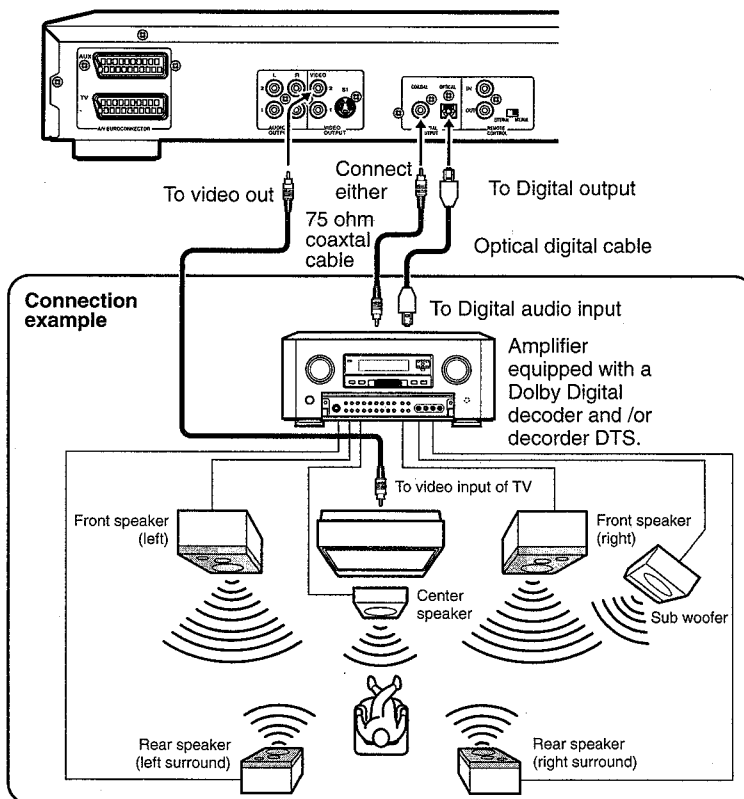
Dolby Digital (AC-3) is a six-channel digital surround sound technology developed by Dolby Laboratories for theater-like surround sound reproduction. DVDs supporting Dolby Digital (AC-3) technology feature the  logo. You can enjoy realistic, theatre-like surround sound from DVD movie or music discs featuring this logo. Two front, one centre, and two rear speakers plus a subwoofer make up the "5.1 -channel" audio system that Dolby Digital (AC-3) uses.

- When the connected amplifier is an AV amplifier with a Dolby Digital (AC-3) decoder, set the "DOLBY DIGITAL" setting of "DIGITAL OUTPUT" to BITSTREAM (see page 27).

### Digital Theater Systems (DTS)

DTS is a high quality surround sound technology used in theaters and now available for home use, on DVD video discs or audio CDs. If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.

- When the connected amplifier is an AV amplifier with a DTS decoder, set the "DTS" setting of "DIGITAL OUTPUT" to BITSTREAM (see page 27).



### ■ Standard equipment necessary to enjoy Dolby digital (AC-3)

You will need:

- DVD video discs recorded in Dolby Digital (AC-3)
- Six-channel amplifier equipped with a Dolby Digital (AC-3) decoder, or Dolby Digital (AC-3) processor and power amplifier
- Five speakers and one sub woofer

### ■ To enjoy Dolby Digital (AC-3) sound and DTS sound

Refer to the description of the DVD video discs and select the recording system. See page 20.

- Connect the TV to the DVD player as shown in the previous connection.

### ■ Standard equipment necessary to enjoy DTS sound

You will need:

- DVD video discs or audio CD recorded in DTS
- Six-channel amplifier equipped with a DTS decoder and power amplifier
- Five speakers and one sub woofer

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," "AC-3," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

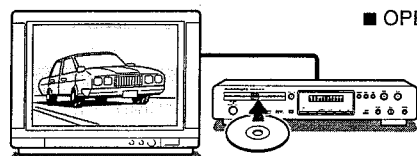
### Notes

- Connect the speakers according to the instructions in the owner's manual for the speaker system.
- If the audio system used with this DVD player is not compatible with the bit stream signal formats such as Dolby Digital (AC-3), MPEG and DTS, the audio outputs will contain noise. Read the user's manual for the audio carefully and be sure to set up the audio outputs properly (see page 30).
- When playing DTS-encoded discs (DVD video discs and audio CDs), excessive noise may be output from the analog stereo jacks. To avoid possible damage to the audio system, you should take proper precautions when the AUDIO OUT jacks of the DVD video player is connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the DIGITAL OUT jack of the DVD video player.

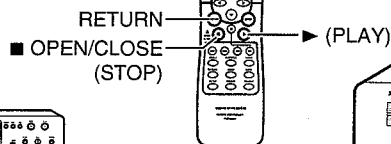


## Basic Playback

# Playing a Disc

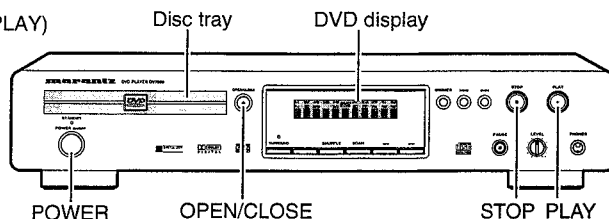


This section shows you how to play a disc.



### CAUTION

Keep your fingers clear of the disc tray as it is closing. It may cause serious personal injury.

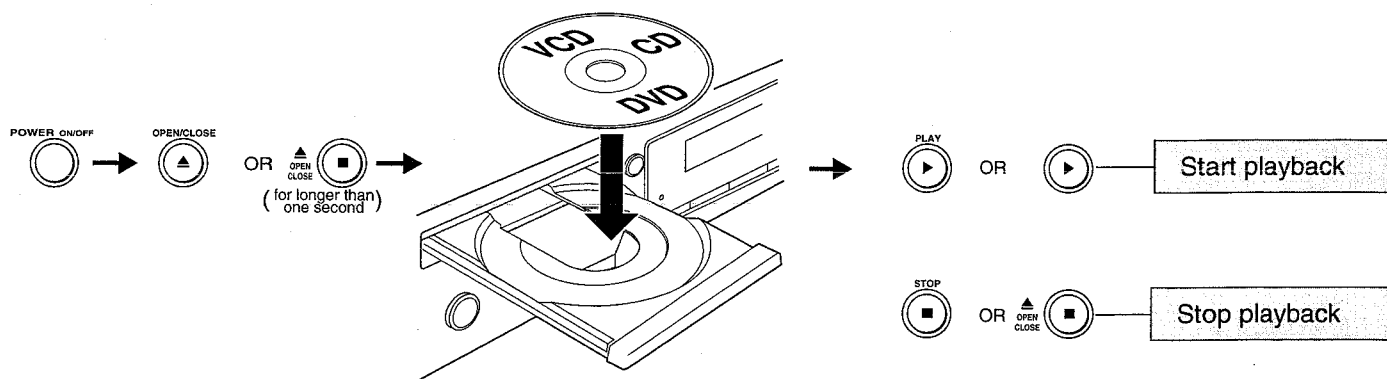


## Basic Playback



### Notes

- Press the POWER button on the Front panel to turn the power on, and press it again to turn the power off.
- When it is required to remote control the power mode of this DVD player, be sure to leave this switch in the power on mode.
- Since it is usual for DVD movies to be released at different times in different regions of the world, all players have region codes, and discs can have an optional region code. If you insert a disc of a different region code to your player, you will see the "REGION ERR" notice on the front panel display. The disc will not play. (see page 34)
- Some DVD discs automatically display a disc menu after being loaded in the player (see page 22).



### ■ Playback of NTSC DVD/Video CD discs

1. When the OUTPUT TV SYSTEM setting is set to "AUTO" or "NTSC", playback will be in the NTSC format with NTSC TV.
2. When the OUTPUT TV SYSTEM setting is set to "PAL", conversion will take place and playback will be in the PAL format with PAL TV. (In this case, when you display the DVD disc menu, there will be a **black surround** to the menu. This is normal and is not a malfunction.)

### ■ Playback of PAL DVD/Video CD discs

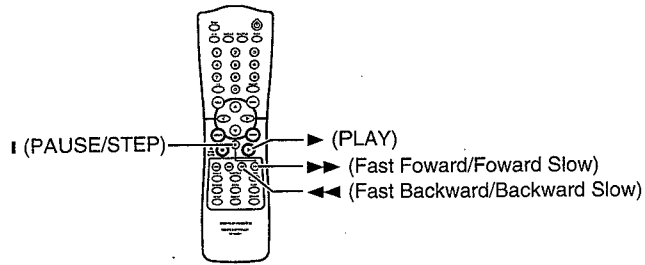
1. When the OUTPUT TV SYSTEM setting is set to "AUTO" or "PAL", playback will be in the PAL format with PAL TV.
2. When the OUTPUT TV SYSTEM setting is set to "NTSC", conversion will take place and playback will be in the NTSC format with NTSC TV. (In this case, the picture will be in **BLACK AND WHITE** and will move up and down slightly during playback. This is normal and is not a malfunction.)

### Auto Resume Feature (DVD/VCD/CD)

- When you stop playback using stop button on the DVD player or ■ open /close on the remote control, the player will memorize the break point.
- You can resume playback from the most recent break point by pressing ► (play button).
- To clear break point data from memory, open the disc tray using ■ open/close button on the DVD player or press the ■ open/close button on the remote control for longer than one second, or press the RETURN button on the remote control when the player is stopped and ON screen icon is turned OFF.

### Notes

- Whenever you place a disc on the disc tray, be sure it lies within the tray's disc recess.
- When no disc is loaded, a "NO DISC" message is displayed on the player's front panel display.
- To remove the disc currently being played, press the ■ open/close button for longer than one second on the remote control.
- If the unit is turned off using the Main or Remote control Power switch while playing, operating information stored up to that point may be lost.
- A DVD disc cannot be resumed while its disc menu is displayed on the screen.
- Play functions for DVD/VCD discs may differ from one disc to another and may not operate as you wish (you will see the Ⓢ icon for prohibited functions).
- Do not move the DVD video player during playback. Doing so may damage the disc.
- Use the OPEN/CLOSE on the remote control or DVD video player to open and close the disc tray. Do not push the disc tray. Doing so may cause the DVD video player to malfunction.
- Do not push down the disc tray or put any objects other than discs in the disc tray. Doing so may cause the DVD video player to malfunction.
- Read the technical information supplied with each disc.

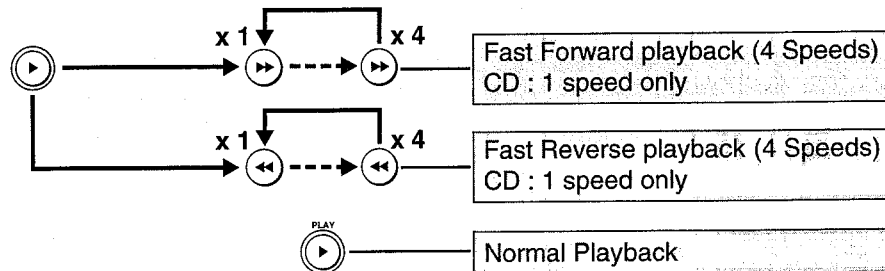


■ To obtain a higher quality picture

Occasionally, some picture noise may appear on the TV screen while playing back a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV, you should reduce the sharpness adjustment on your TV from the position you usually set for normal broadcasts.



## Playing at Multi Speed (Fast Forward/Fast reverse)

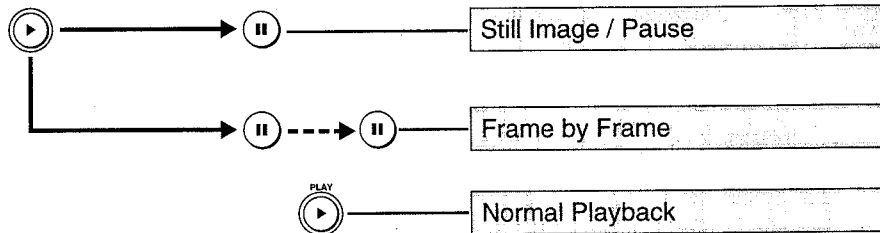
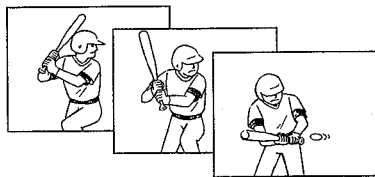


**Note**

- In general the audio tracks on DVDs or VCDs are muted while in fast-forward/fast-reverse mode. However, the DVD video player plays sound during fast forward or fast reverse playback of audio CDs.



## Playing Frame by Frame

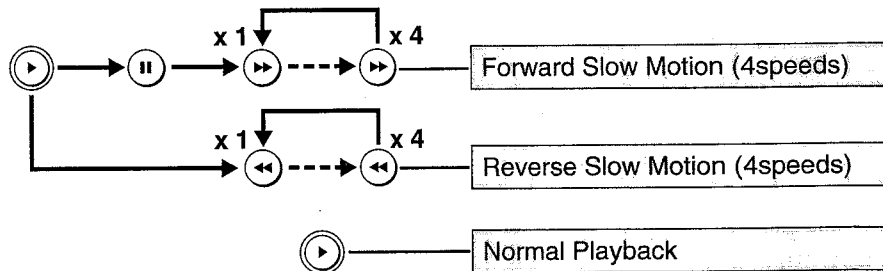


**Notes**

- This sound is muted during frame by frame playback.
- The same operation can be performed using the **II** button on the DVD player.



## Playing in Slow Motion

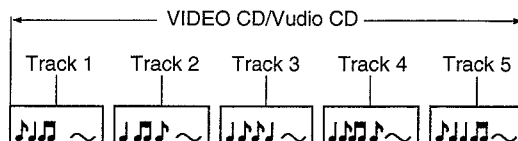
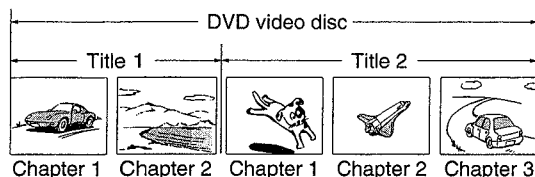


**Notes**

- The sound is muted during slow motion playback.
- The Multi-Speed (slow) play mode may not be available with some discs.
- Reverse slow-motion pictures on DVDs will not play smoothly as they are actually frame-advance images.

## Basic Playback

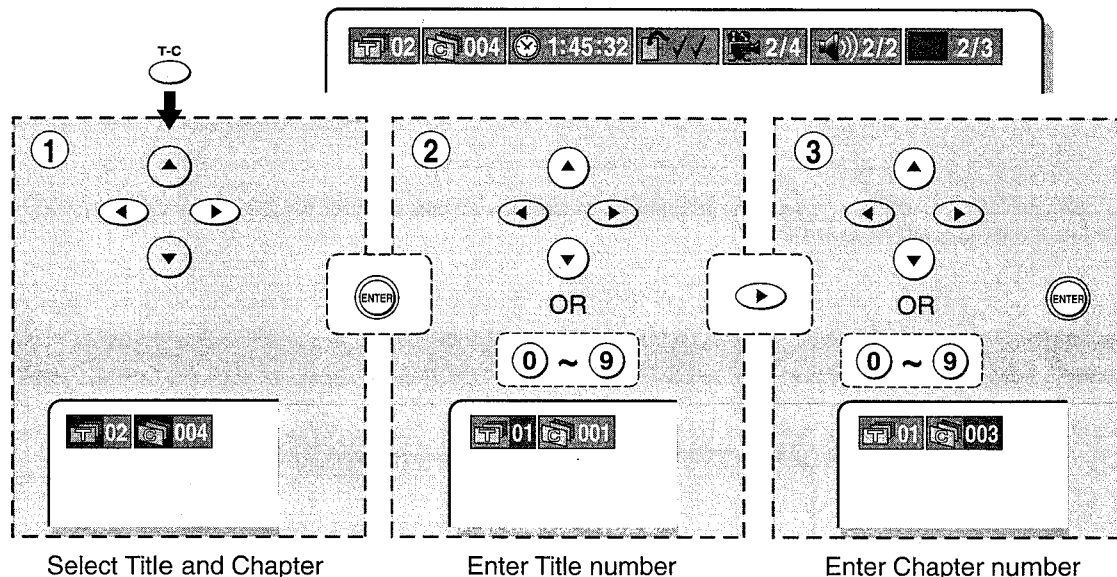
# Locating a Specific Title, Chapter, Track or Time



Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and Audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.

## Locating a Title or Chapter

EXAMPLE: To locate Title 1, Chapter 3



### Notes

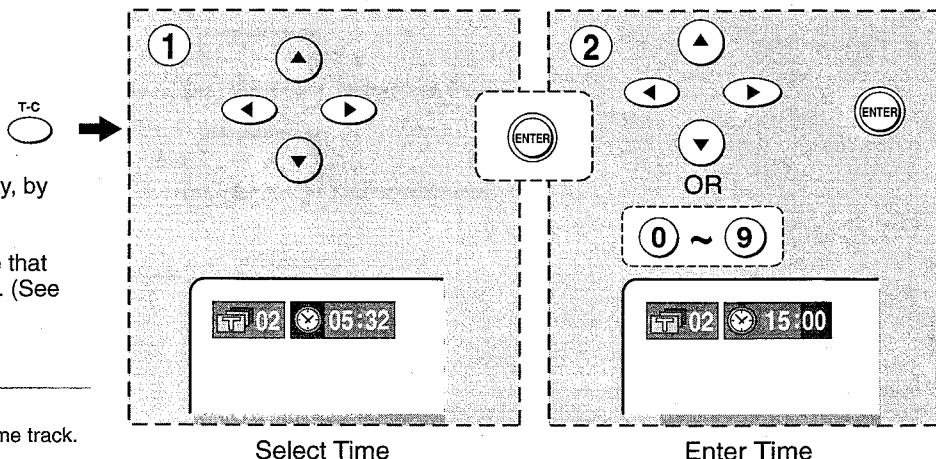
- If the disc being played has no titles or chapters, a dash (-) will be displayed for TITLE or CHAPTER.
- If you enter a title or chapter number not contained on the disc, the Prohibit icon (a circle with a diagonal line) will be displayed when you press ENTER. Enter the correct title or chapter number.

- Once searching starts, the picture freezes until the specified location is found, after which playback will start automatically.
- Note that not all discs use the search feature.
- This feature can also be carried out from the stop mode.

## Locating a Track or Time

EXAMPLE: To locate time: 15 minutes

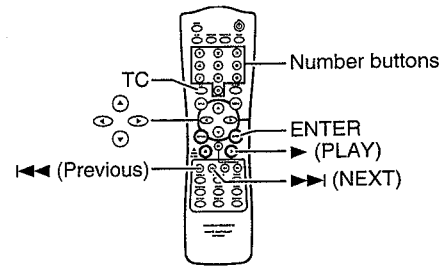
- Locate a track in the same way, by selecting the Track icon after pressing the T-C button.
- With VCDs, please make sure that the PBC mode is set to "OFF". (See page 21)



### Note

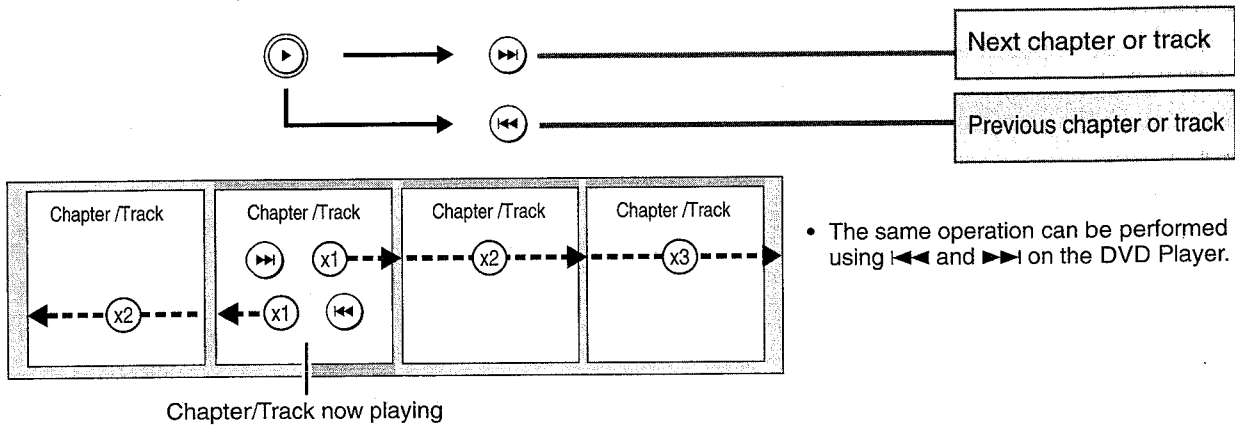
Time can only be located within the same track.





## Locating a Specific Chapter or Track

You can locate consecutive chapter or tracks.



### Note

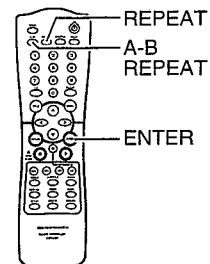
- Some titles may not display the chapter number.

## Advanced playback

# Playing Repeatedly

- A-B Repeat:** Repeats a specified section (A-B) (DVD/VCD/CD)  
**Title Repeat:** Repeats a specified title (DVD)  
**Chapter Repeat:** Repeats a specified chapter (DVD)  
**Track Repeat:** Repeats a specified VCD/CD track (VCD\*/CD)  
**All Repeat:** Repeats the entire disc (VCD/CD)

\* When PBC mode is off (see page 21).



EXAMPLE: DVD

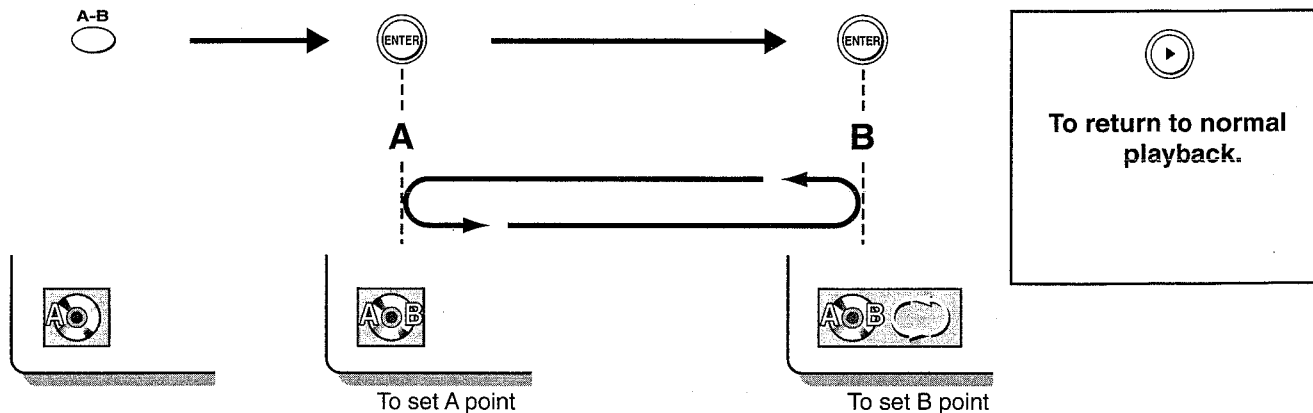
Title 1			Title 2			Title 3		
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2	Chapter 3
	A	B						
	↔		↔			↔		

You can play a specific title, chapter, track, or segment repeatedly. (Title repeat, chapter/track repeat, A-B repeat)

## Repeating a Specific Segment



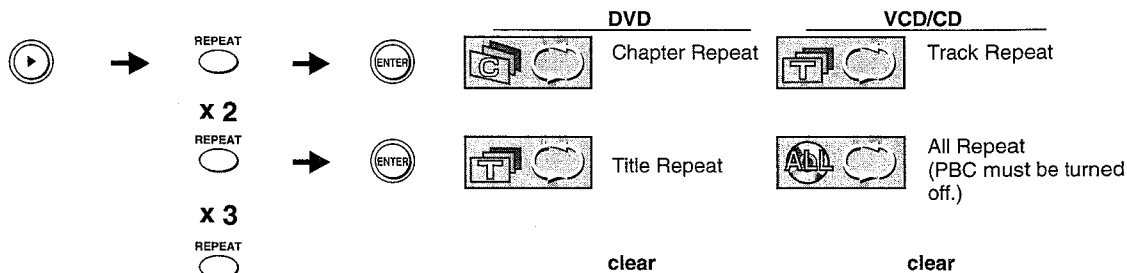
You can play specific segment repeatedly. (A-B repeat)  
 During playback, press REPEAT A-B button.



## Repeating a Title, Chapter, or Track



You can play the same title, chapter, or track repeatedly.  
 During playback, press Repeat button.



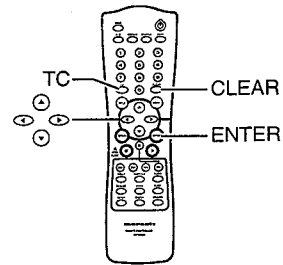
### Notes

- Repeat mode will be cancelled if you press play button on the player or remote control.
- Some discs may not respond to the repeat function.
- Once the repeat begins, the picture is frozen while the disc returns to the beginning of the section.
- VCDs with the PBC feature will perform section repeats only if the PBC feature is turned off (see page 21).

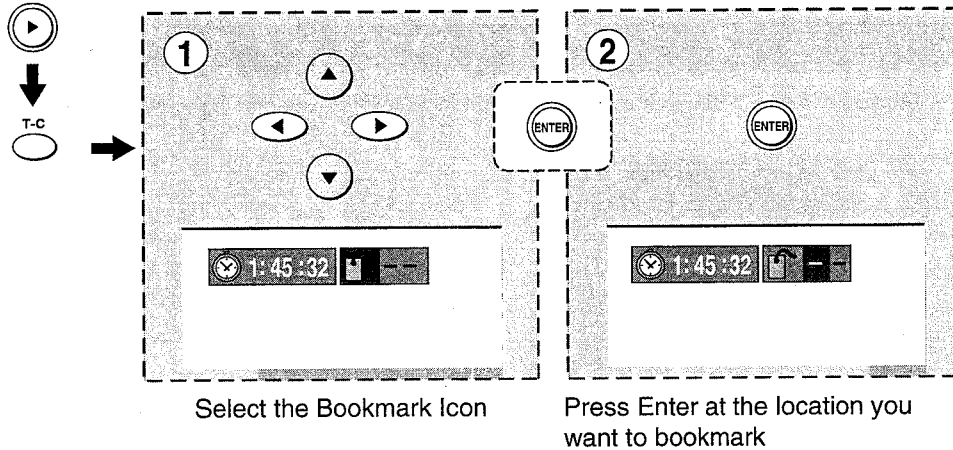
Advanced playback

# Bookmarks

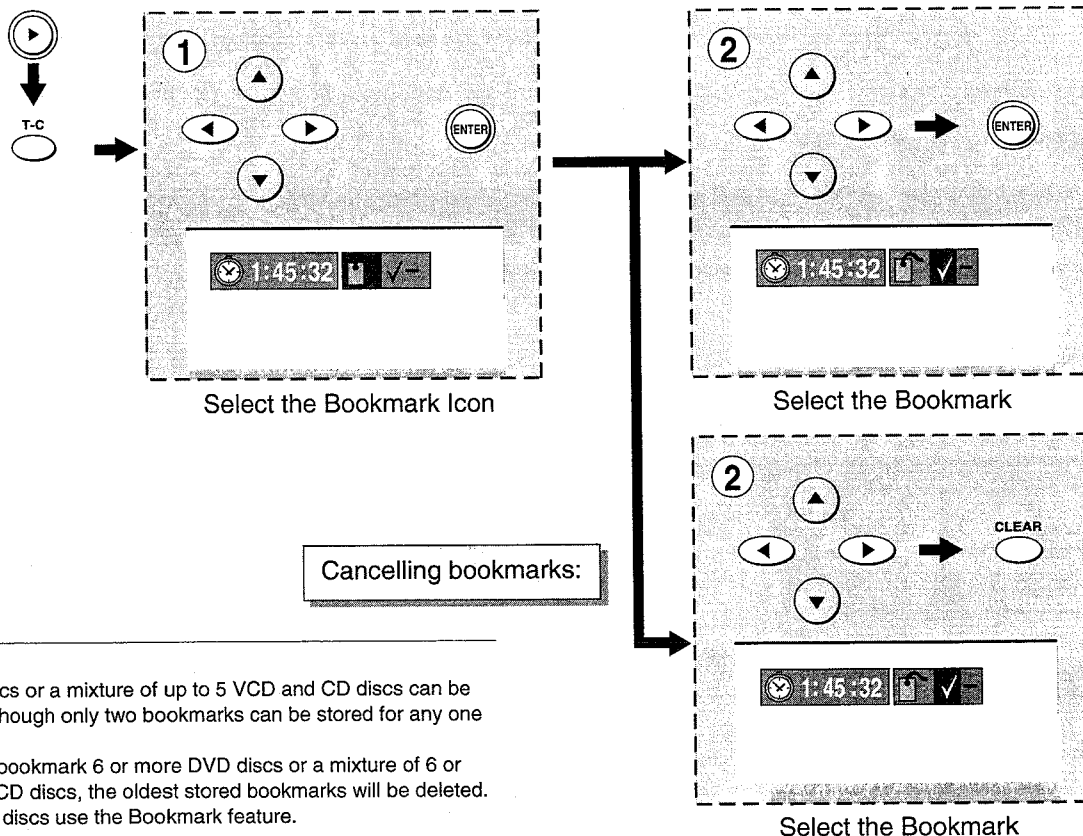
Bookmarking allows you to 'bookmark' your favorite scenes, so that you can go directly to them.



## Saving Bookmarks:



## Selecting Bookmarks:

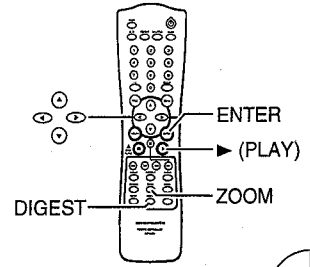


### Notes

- Up to 5 DVD discs or a mixture of up to 5 VCD and CD discs can be bookmarked, although only two bookmarks can be stored for any one disc.
- When you later bookmark 6 or more DVD discs or a mixture of 6 or more VCD and CD discs, the oldest stored bookmarks will be deleted.
- Note that not all discs use the Bookmark feature.

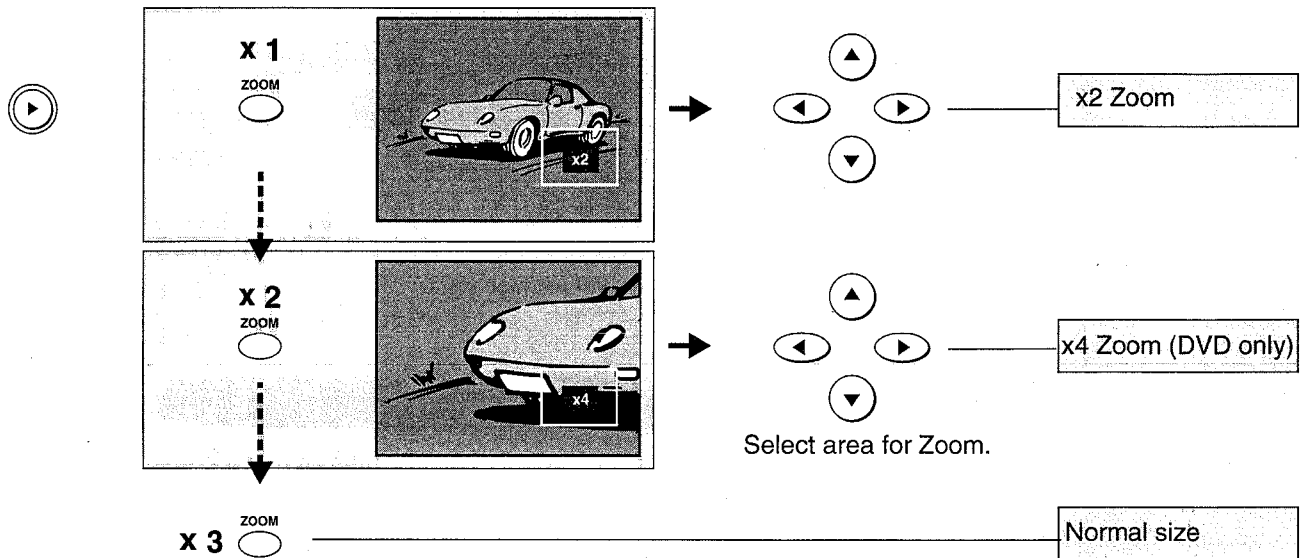
Advanced Playback

# Zooming a Picture and Digest



## Zooming a Picture

A box will appear on the screen and you can select the portion of the screen that you want to zoom. You can use the zoom from the play or still modes.



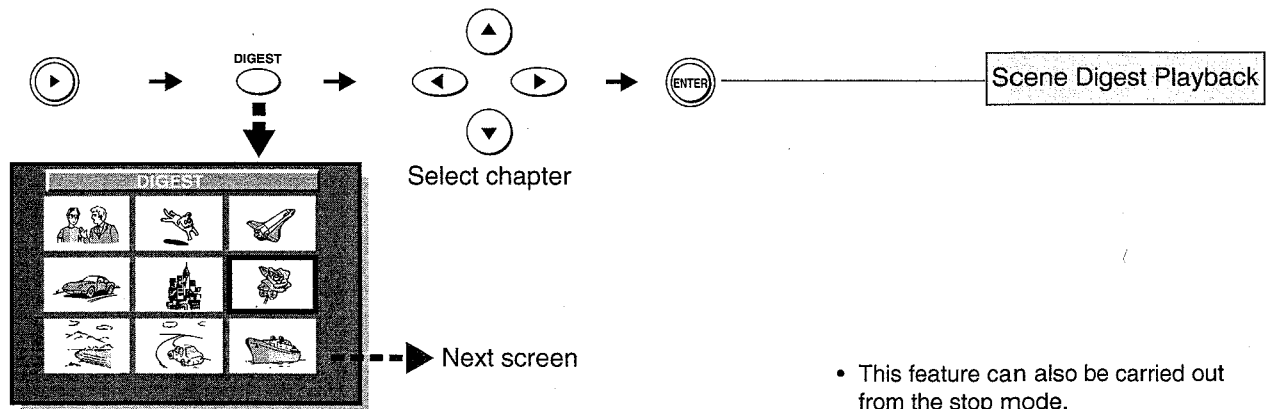
**Note**

Some discs may not respond to Zoom function.



## Digest

Displays the chapters on a DVD/VCD and allows you to go directly to the chapter that you want to watch.



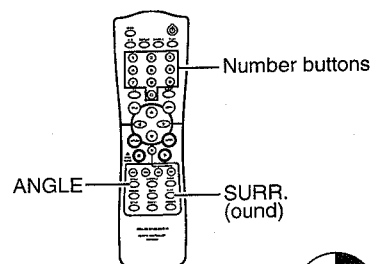
- This feature can also be carried out from the stop mode.

**Notes**

- Some discs may not respond to Digest function.
- Some discs may cancel the DTS mode when Digest or Scan is activated.
- The DTS mode can be reset via the Disc menu.

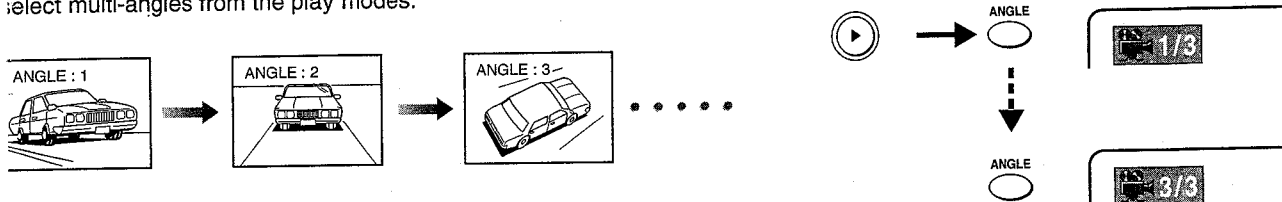
## Advanced Playback

# Selecting the Camera Angle and Surround



## Changing the Camera Angle

A DVD can provide up to nine camera angles for certain scenes. On multi-angle discs, desired camera angles can be selected. You can select multi-angles from the play modes.

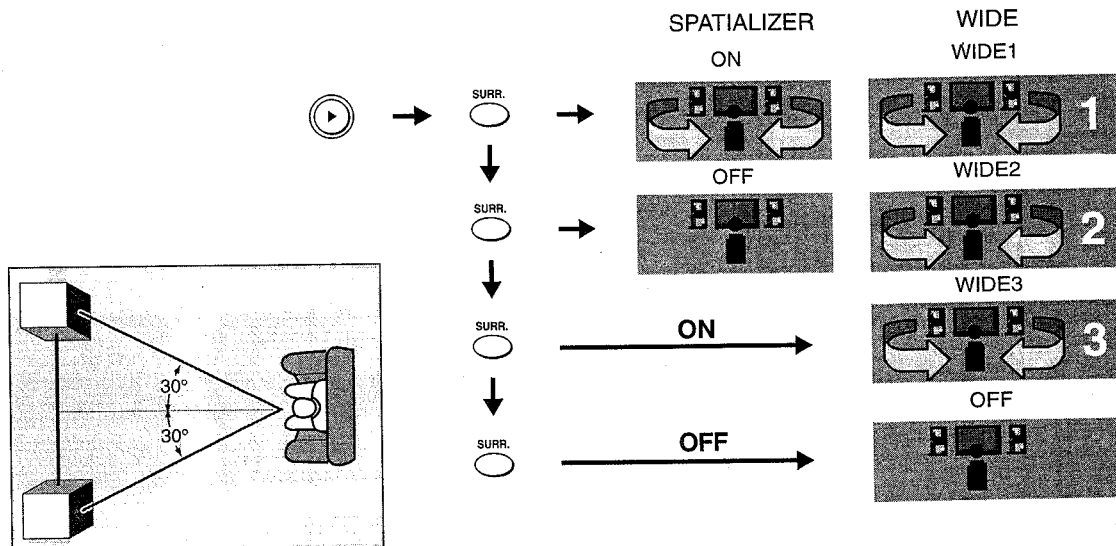


## Notes

- The OSD ICON mode must be set to "ALL" for angle icons to appear (please see "Operation Icon Displays" on page 21).
- Alternatively, while playing a disc, use the number buttons and the ANGLE button to change from one angle to another.
- The availability of multi-angle viewing depends on the disc, so check the information provided with each disc. While playing a disc, only the main angle will be shown.
- The number of angles that can be viewed depends on the disc. For more details, read the information provided with the disc.
- Note that not all discs have multi-angle scenes.

## Changing the Surround Sound Enhancement

If you press the SURR. button while playing a disc, you can enjoy virtual surround through your conventional dual-channel stereo system or through a stereo TV set. You will hear sounds from the side where no speakers actually exist. The player will automatically select between the SPATIALIZER and WIDE modes, depending on the mode available on the disc, and surround indicator will light.



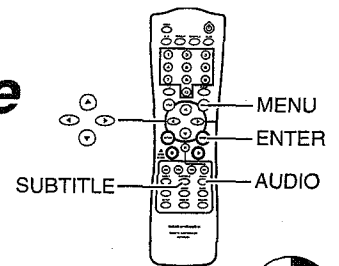
The SURROUND mode is selected automatically according to the number of audio channels recorded on the disk.

- SPATIALIZER:** DVD with 5 or more channels recorded in Dolby Digital (AC-3).
- WIDE:** VCD, CDs or DVD with 4 channels or less recorded in Dolby Digital or discs recorded in formats than Dolby Digital.

## Notes

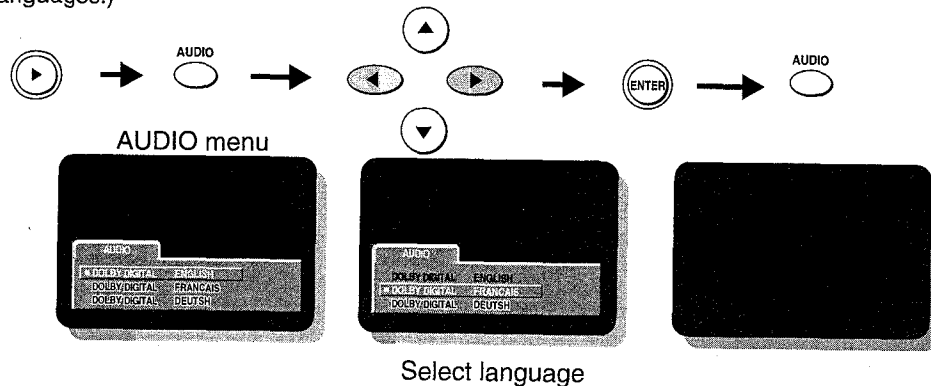
- The performance of the SPATIALIZER (Virtual Surround) effect may vary from disc to disc.
- The Player exits Virtual Surround mode when it is turned off.
- If SURROUND is activated, lower the output volume level to prevent distortion.
- The surround sound effect depends on how the program's sound was originally recorded and may not be available for some programs. Surround sound is not available on monaural recordings.
- Once the Player enters Surround mode with a Dolby Digital DVD disc, the digital outputs are automatically set to PCM mode, even if the current setting of Dolby Digital is BITSTREAM.
- If you choose PCM for DIGITAL OUTPUT, do not use the surround (see page 27).

# Selecting a Language and Subtitle



## Selecting a Playback Audio Setting

If a disc provides more than one language, you can select the soundtrack language you want to hear. (DVDs can contain up to eight different soundtrack languages.)

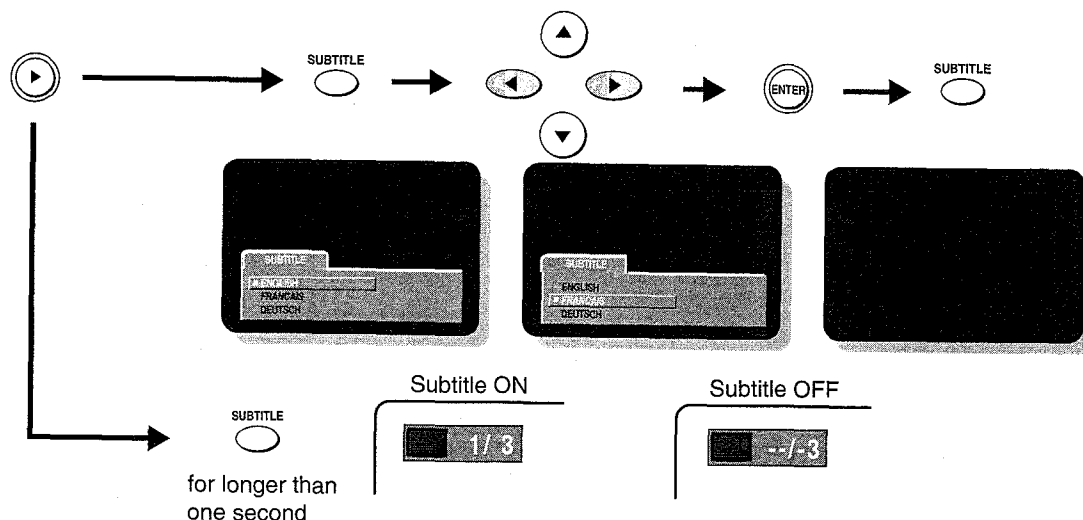


### Notes

- Some discs allow you to change audio selections only via the disc menu. If this is the case, press the MENU button and choose the appropriate language from the selections on the disc menu. 22
- The availability of multi-soundtrack languages depends on the disc.
- Alternatively, while playing a disc, select the audio language using the numeric buttons and the **AUDIO** button.

## Selecting a Subtitle Language

DVDs can contain more than one subtitle language. If a disc provides more than one language, you can select the subtitle language you want to see.



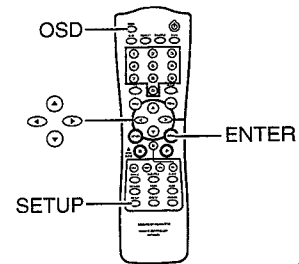
### Notes

- Some DVD video discs will allow you to make subtitle selections and turn subtitles on or off only via the disc menu. 22
- Hold **SUBTITLE** down for longer than one second to turn the subtitle on or to turn the subtitle off.
- Alternatively, while playing a disc, select the subtitle language using the numeric buttons and the **SUBTITLE** button.
- If subtitles are not recorded on the disc, you cannot use this feature.
- Some discs will automatically display or are supplied with closed-caption subtitles for viewers with hearing disabilities. For more details, refer to the information supplied with the disc.
- If SUBTITLE is turned off, it will be automatically turned on again when the subtitle is changed using the above procedure.

## Advanced Playback

# Using the On-Screen Display

You can view information about a disc and its operational status on the TV screen.



## Checking the Operational Status

The On Screen Icons provide information about the program being viewed.



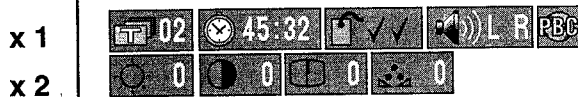
### DVD



The above on-screen icons indicate the following information:

Title 2; Chapter 4; 1 hour 45 minutes 32 seconds elapsed in current title; two bookmarks stored; 2nd of 4 multi-angle views; 2nd of 2 soundtrack languages; 2nd of 3 subtitles; Picture brightness level  $\pm 0$ ; contrast level  $\pm 0$ ; sharpness level  $\pm 0$ ; hue control level  $\pm 0$ .

### VCD / CD



The above on-screen icons indicate the following information:

Track 2; 45 minutes 32 seconds elapsed in current title; two bookmarks stored; stereo output; PBC mode is turned on.

Picture brightness level  $\pm 0$ ; contrast level  $\pm 0$ ; sharpness level  $\pm 0$ ; hue control level  $\pm 0$ .

will not appear while playback is in the PAL format.

will not appear while a CD or version 1.1 VCD is loaded.



To turn the On Screen Icons off again.

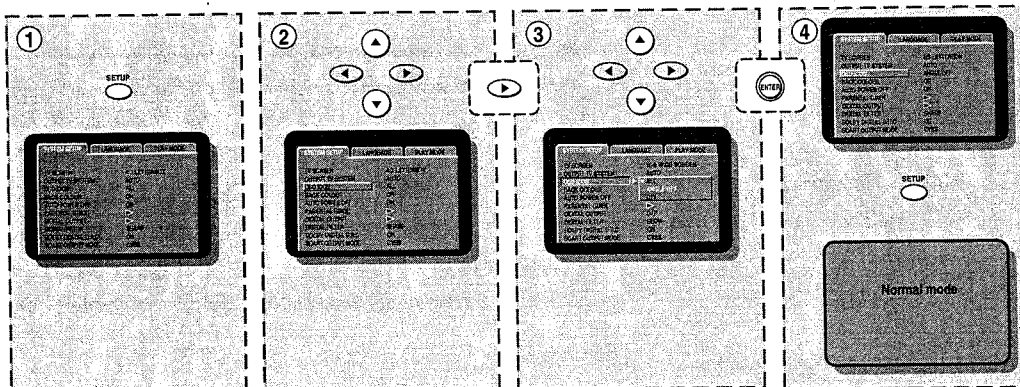
### Note

PBC is changed only from the Stop mode.



## Operation Icon Displays

To turn the normal operation On Screen Icons (playback, still, angle notification, etc.) on and off.



Select OSD ICON

ALL:

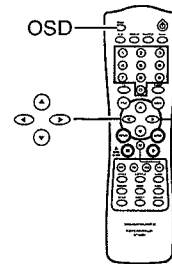
Display all current operation icons as well as Multi-Angle notification icons.

ANGLE OFF:  
OFF:

Turns off Multi-Angle notification icons only.  
Turns off all icons only, except the icon.

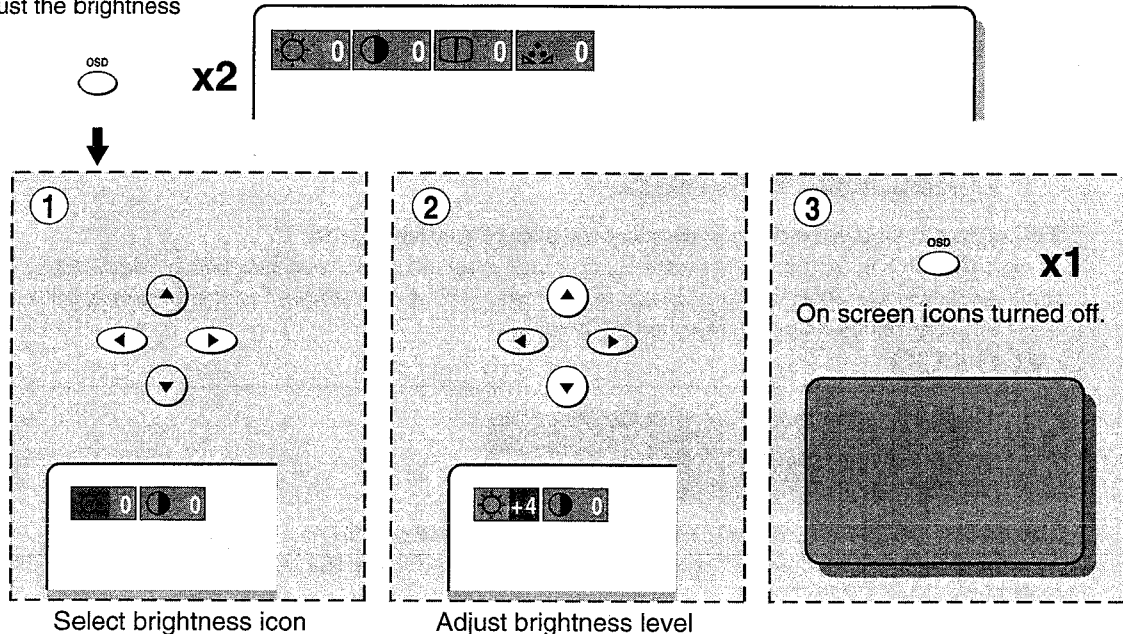
Advanced Playback

# Picture Setting and DVD Disc Menu



## Picture Setting

EXAMPLE: To adjust the brightness



	Brightness	To adjust the picture's brightness. (0 ~ +9)
	Contrast	To adjust the picture's contrast. (-9 ~ +9)
	Sharpness	To make the picture sharper or softer. (-6 ~ +6)
	Hue (NTSC only)	To adjust the color balance. (-9 ~ +9)

- The hue control adjusts composite and S-video signals only (NTSC only). All the other controls are for PAL or NTSC.

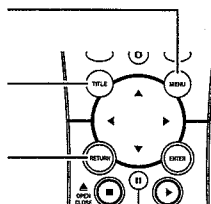
## DVD Disc Menu

Most DVDs contain a menu, called the disc menu. Disc menus, shown on the TV screen, allow you to select programmes for playback. Disc menus range from simple to complex, containing the titles of video programmes and music programmes, and the names of stories for discs with multi-story capabilities.

**MENU button:**  
Displays the Disc Menu.

**TITLE button:**  
Display the Title Menu.

**RETURN button:**  
Returns to the previous menu.



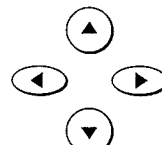
- If a DVD video disc contains a title menu, you can locate a specific title using the title menu.

**Press TITLE.**

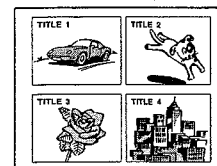
The title menu appears on the TV screen.

### To start playback from the menu screen

- Press /// or the number buttons to select the title you want.



Example



- Press ENTER.

The DVD video player begins playback from the selected title.



### Notes

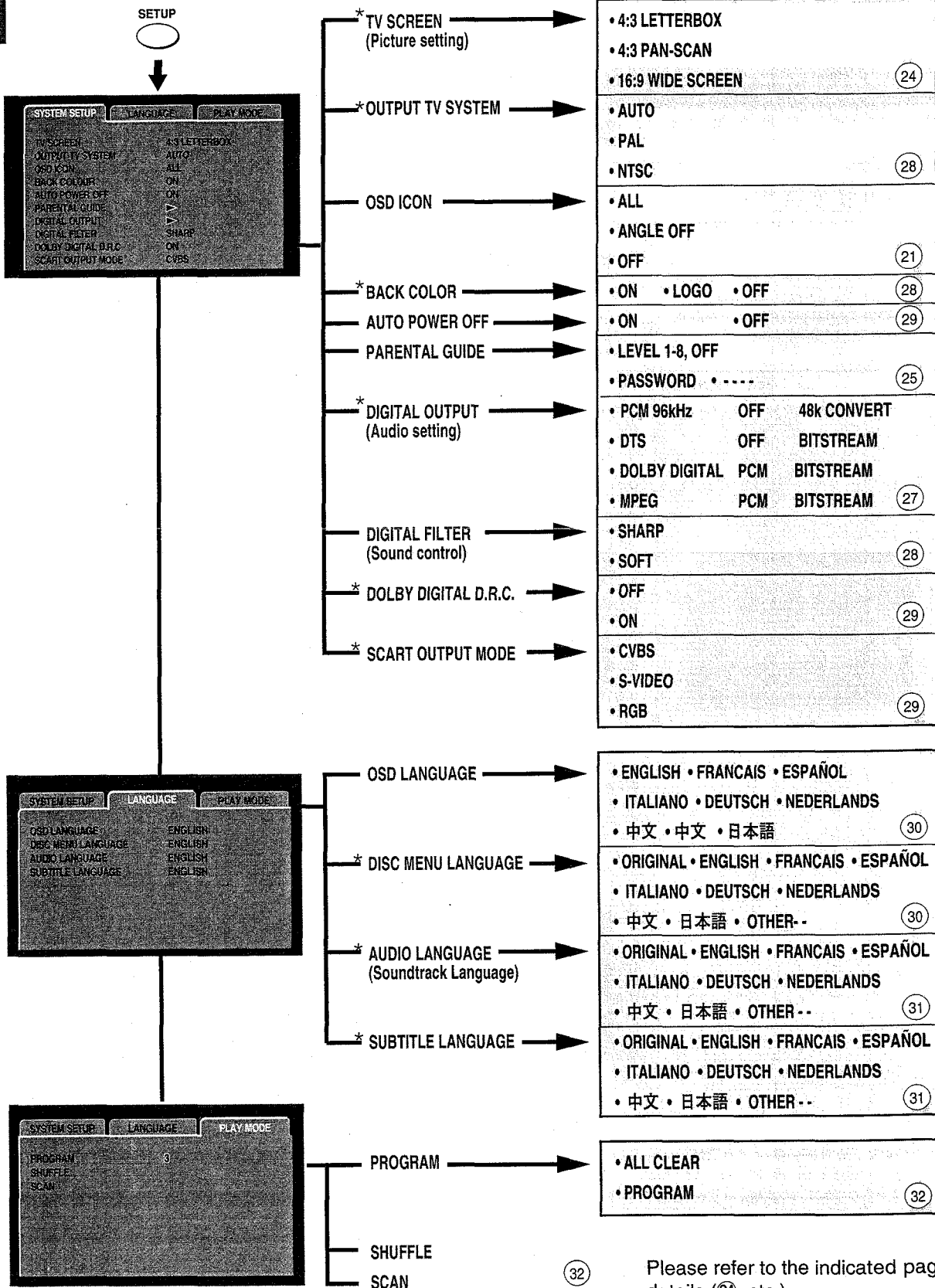
- Disc menus can not be used simultaneously with the On Screen Icons.
- Some discs may cancel the DTS mode when Digest or Scan is activated.
- The DTS mode can be reset via the Disc menu.



Function Setup

# Customizing the Settings

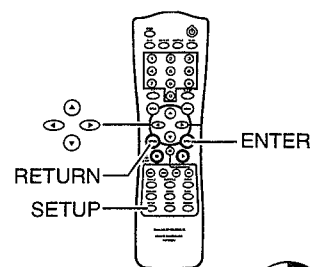
\* Setting must be carried out from the stop mode.



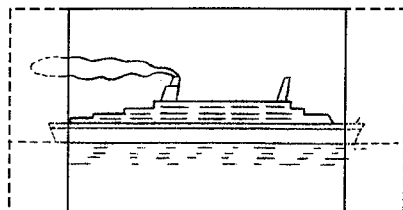
Please refer to the indicated page for details (24, etc.).

Function Setup

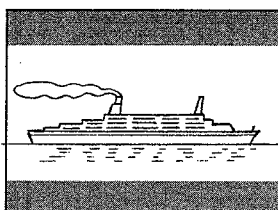
# Customizing the settings (continued)



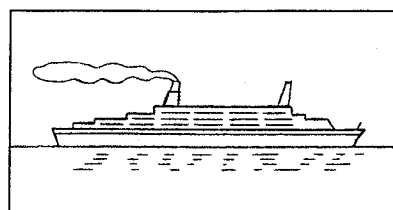
## PICTURE Settings



**4:3 PAN-SCAN:** For viewing standard 4:3 pictures or wide-format pictures trimmed to fit within a standard 4:3 ratio screen.



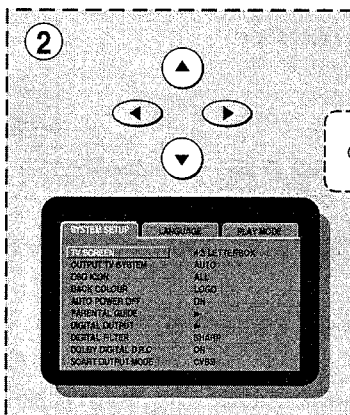
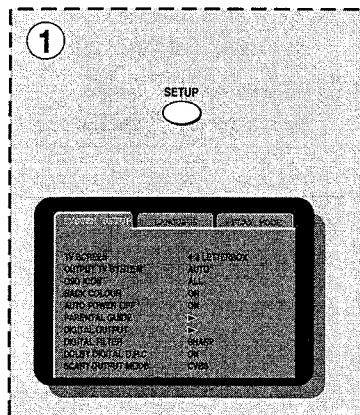
**4:3 LETTERBOX:** For viewing wide-format pictures at their full width, with black bands appearing above and below.



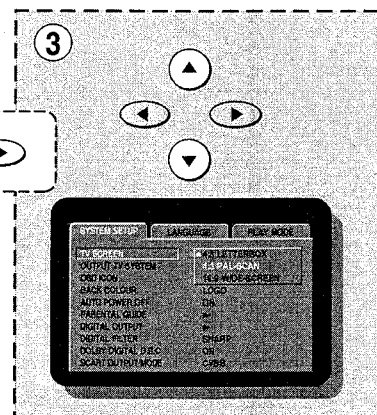
**16:9 WIDE SCREEN:** For viewing wide-format pictures on a wide-screen TV.

For a standard TV

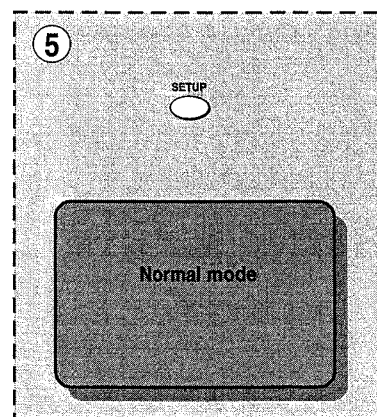
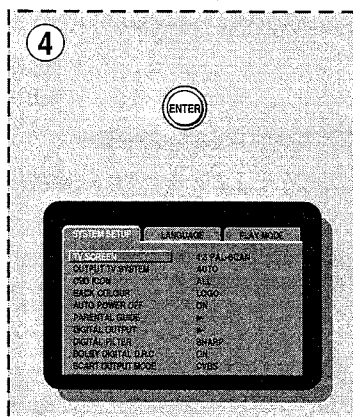
For a wide-screen TV



Select TV SCREEN



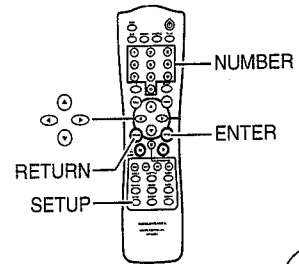
Select TV format



When finished

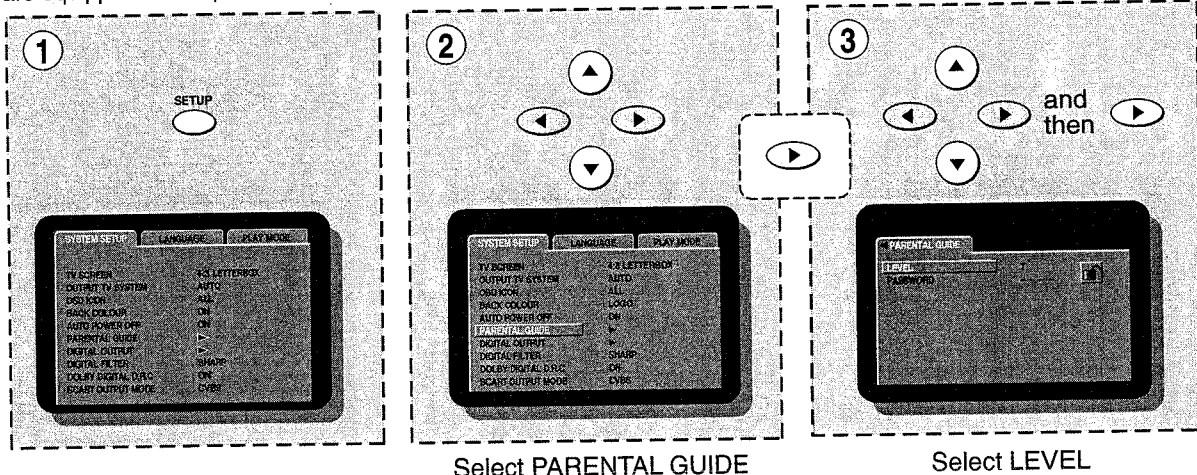
### Notes

- The displayable picture size is preset on the DVD video disc. Therefore, the playback picture of some DVD video discs may not conform to the picture size you select.
- When you play DVD video discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
- If you select "16:9 Widescreen" and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear to be horizontally compressed. Always be sure that your TV shape conforms to the actual TV in use.
- Read your TV's instruction manual carefully.
- Pressing the **RETURN** button at any time, returns to the previous



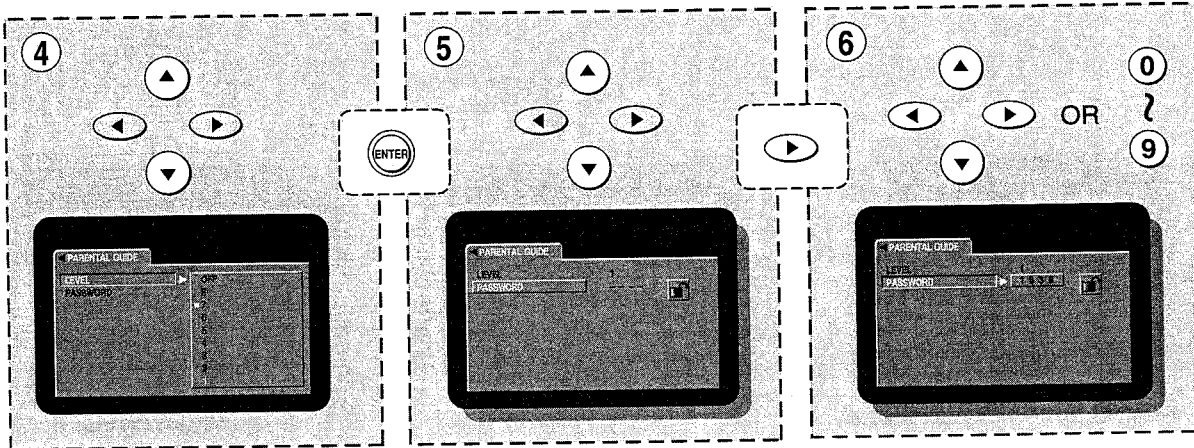
## Parental Guide

Some discs contain a restriction level which enables parents to remove scenes or prevent playback of discs by children. MARANTZ DVD players are equipped with a password function designed to prevent children changing the level.



Select PARENTAL GUIDE

Select LEVEL



Select level

Select PASSWORD

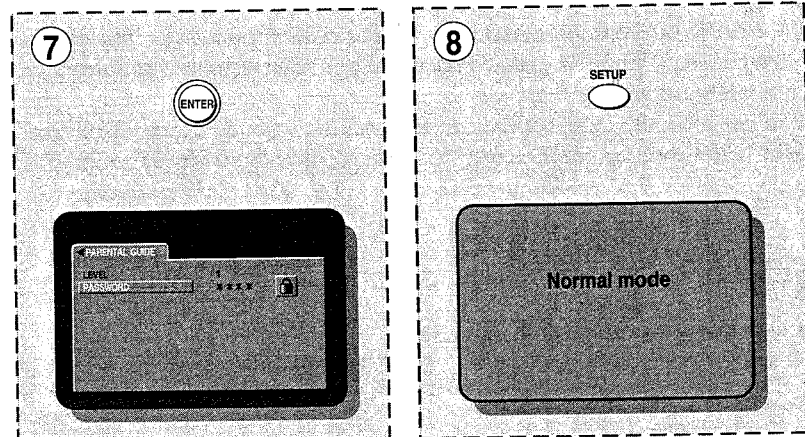
Enter 4 digit password

### Ratings 1 to 8:

The disc contains scenes not suitable for children. If you set a rating for the player, all scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative is available on the disc. The alternative must have the same rating or a lower one.

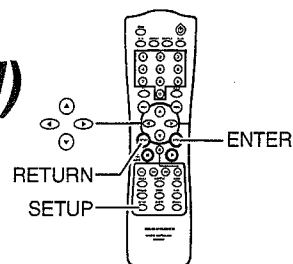
### Note

- Pressing the **RETURN** button at any time, returns to the previous menu.



When finished

# Customizing the Settings (continued)



## Cancelling Parental Lock

**1**

SETUP

**2**

Select PARENTAL GUIDE

**3**

and then

Select PASSWORD

**4**

OR

0 ? 9

Enter your 4 digit password

**5**

ENTER

- If the password is incorrectly entered a key indicator will not be changed.
- Enter the correct password.

**6**

SETUP

When finished

### Changing Your Password or Parental Guide Level

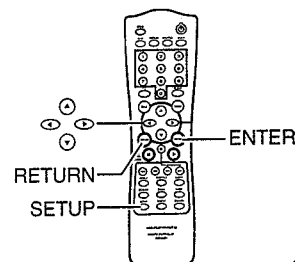
- If you wish to change your password or the restriction level, clear the parental lock for the existing code, then enter a new password and/or level by following the steps described in Parental Guide.

#### If you forget your password:

- After taking out the disc, repeat the above instructions until the PARENTAL GUIDE screen appears, then press the **DIMMER** buttons on the player's front panel for more than 10 seconds. The parental lock mode will be released.

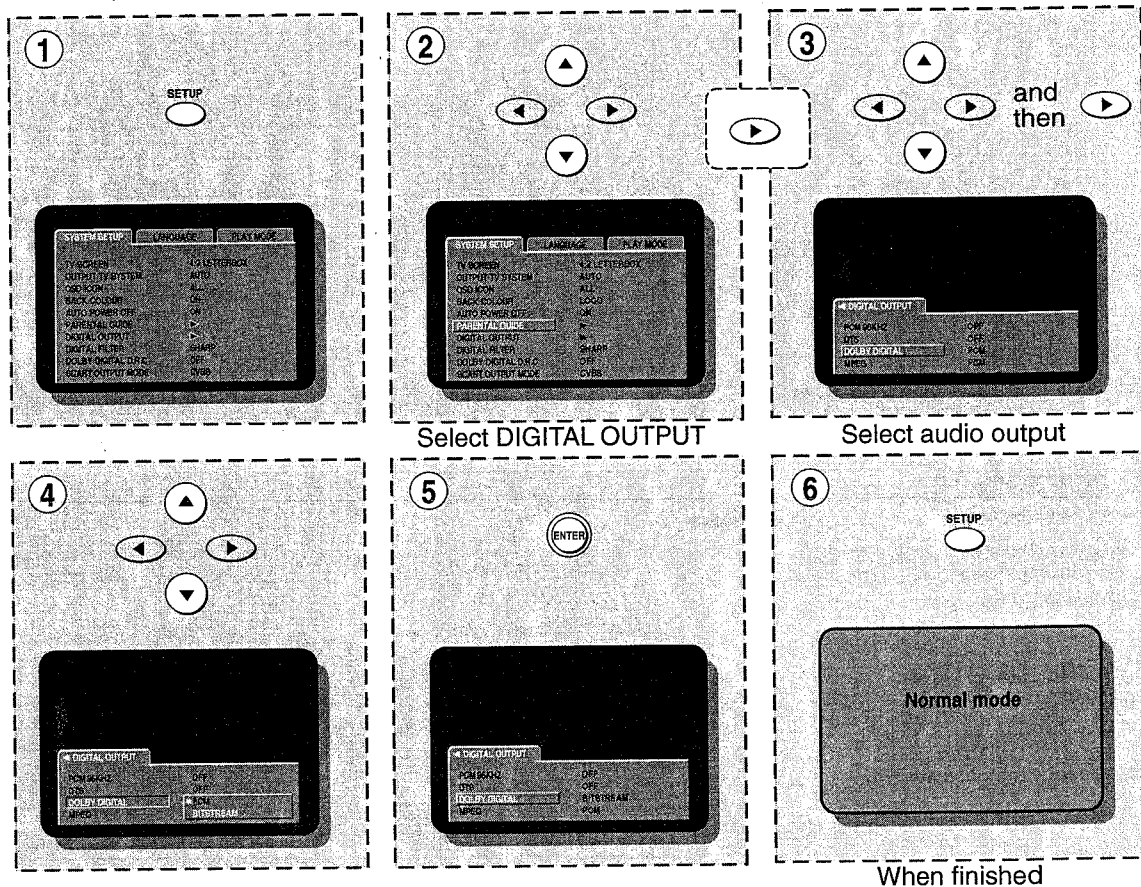
### Notes

- The parental lock cannot be set when playing a disc.
- Once set, your password cannot be viewed again. You should therefore write it down and keep the memo in a safe place.
- Definitions of content for each restriction level differ from one disc to another. Check the definitions by reading the restriction information supplied with each disc.
- Pressing the **RETURN** button at any time, returns to the previous menu.



## AUDIO Setting

Each DVD disc has a variety of audio output options.  
Set the player's audio output according to the type of audio system you use.



<b>PCM 96kHz</b>	Discs with a PCM 96 kHz Sampling rate are converted to a 48 kHz sampling rate. To produce 96 kHz digital output signals, select 48K CONVERT. To produce 96kHz analog audio output signals, select OFF.
<b>DTS</b>	Select BITSTREAM if an active digital output signal is supplied to an amplifier or other equipment with DTS compatibility. DTS audio data is output as a DTS bitstream. If you don't select "BITSTREAM", DTS audio data is not operative.
<b>DOLBY DIGITAL</b>	Select BITSTREAM if an active digital output signal is supplied to an amplifier or other equipment with Dolby Digital (AC-3) compatibility. Dolby Digital (AC-3) encoded signals are output as a Dolby Digital (AC-3) bitstream. If you don't select BITSTREAM, Dolby Digital (AC-3) format signals are converted into 2-channel PCM signals.
<b>MPEG</b>	Select BITSTREAM if an active digital output signal is supplied to an amplifier or other equipment with MPEG compatibility. MPEG audio data is output as an MPEG bitstream. If you don't select "BITSTREAM", MPEG audio data is converted into 2-channel PCM. (DVD only)

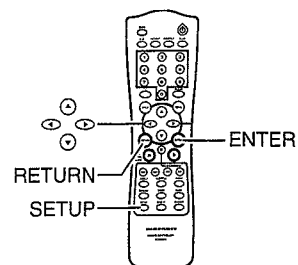
### Notes

- When you are not using the player's optical and coaxial digital output, don't select any of the options.
- If an active digital output signal is supplied to an amplifier or other equipment without a corresponding digital decoding capability, a very loud noise may be produced which could permanently damage the speakers. Make sure to set the DOLBY DIGITAL, MPEG, and DTS options all to OFF or PCM. (The factory default for all AUDIO OUTPUT is BITSTREAM and 48k CONVERT.)
- If the PCM 96kHz option for PCM is set to OFF, the Player's optical and coaxial digital output will not produce signals from DVDs containing 96 kHz PCM audio signals.
- In PCM mode, the player will deliver a 16-bit audio signal for VCDs/CDs.
- In order to reproduce discs recorded with Dolby Digital (AC-3) technology on 5.1 channels, a compatible amplifier and speaker system are required.
- If you choose RETURN for DIGITAL OUTPUT, do not use the surround.
- Pressing the RETURN button at any time, returns to the previous menu.



Function Setup

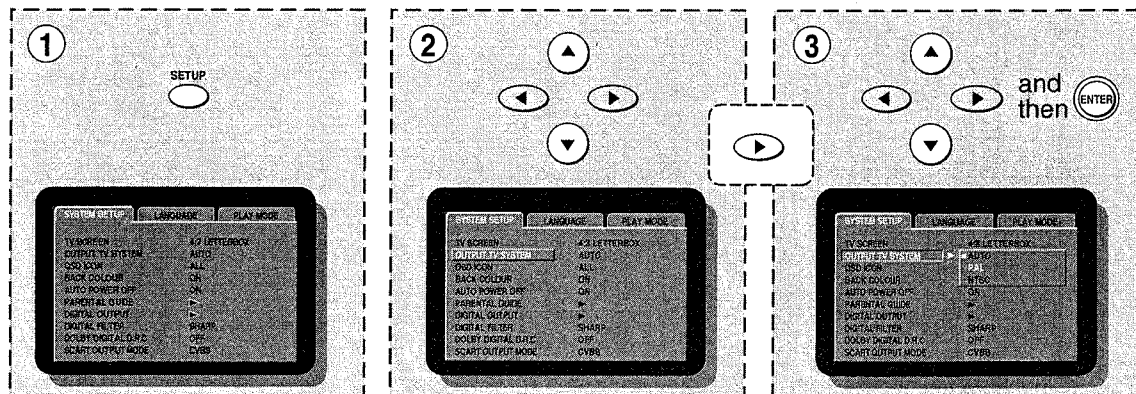
# Customizing the Settings (continued)



## Other System Setting

### Output TV System:

To select the color system of your TV that you are using.  
If you choose NTSC for a PAL disc and view the disc on an NTSC TV, the image may flicker or display fewer colors.



Select OUTPUT TV SYSTEM.

Select TV system

### SOUND CONTROL

Sound Control controls the tonal quality of the player's analog audio by changing the D/A converter's digital filter parameters.

#### SHARP:

Select this position for crisp sound with clear localization of sound sources.

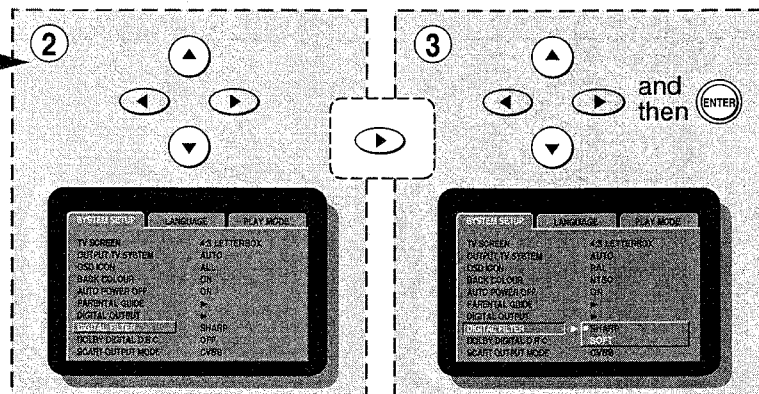
#### SOFT:

Select this position for warmer sound with softer edges.



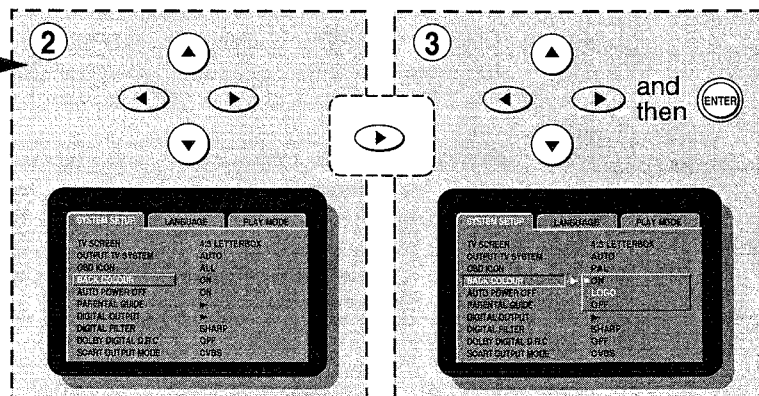
### BACK COLOR:

To turn the blue background screen / Marantz logo on or off.



Select DIGITAL FILTER

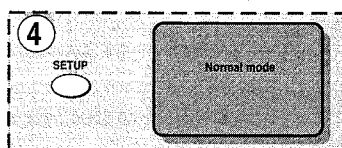
Select tone mode



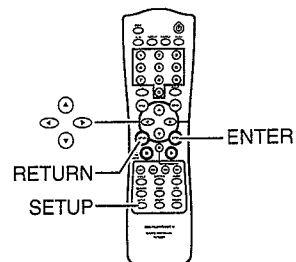
Select BACK COLOR

Set BACK COLOR mode

When finished

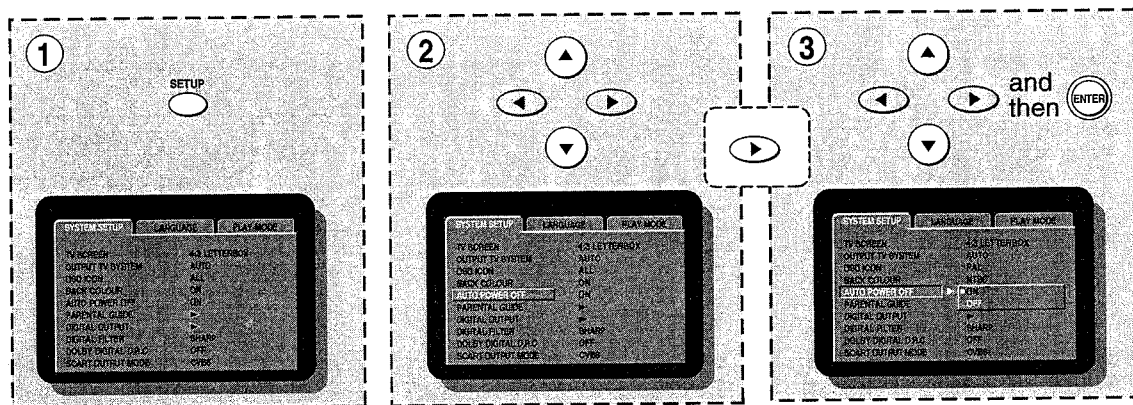


• Pressing the **RETURN** button at any time, returns to the previous menu.



## AUTO POWER OFF:

The standby mode is automatically selected to save power if the player is left in the stop mode for about 30 minutes.



Select AUTO POWER OFF

Set AUTO POWER mode

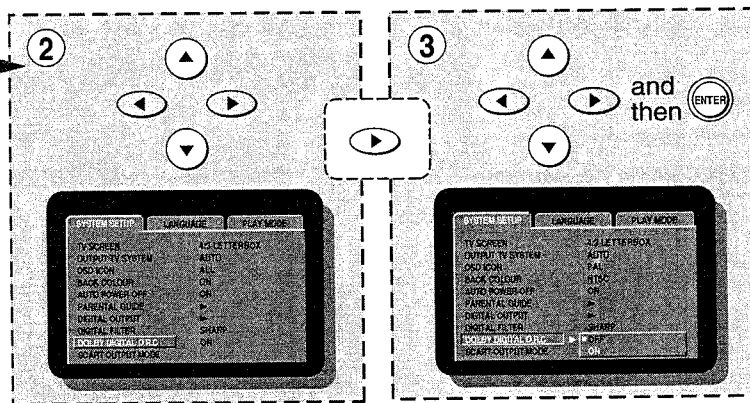
## DOLBY DIGITAL D.R.C. (Dynamic Range Control)

Dynamic Range Control controls the dynamic range of 2 Dolby Digital channels or 2 down-mixed analog audio channels.

**ON:**  
Select this position for clearer movie soundtracks.

**OFF:**  
Select this position for a more true-to-life sonic ambience (normal position).

Analog audio only



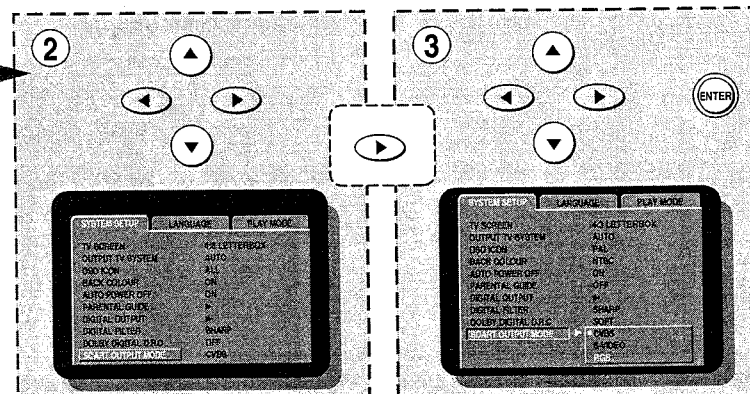
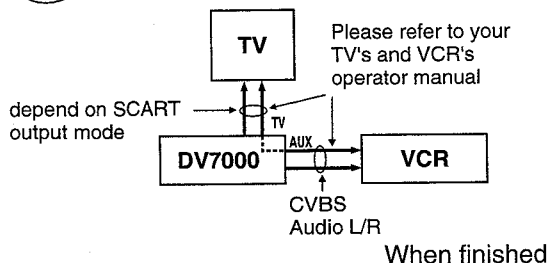
Select DIGITAL D.R.C.

Select DIGITAL D.R.C. mode

## SCART OUTPUT MODE:

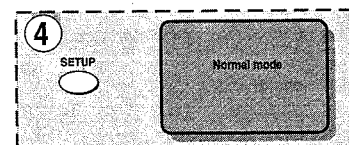
If you have connected the DVD player to the TV with a SCART cable, select the appropriate mode for your TV (please refer to your TV's operator manual).

### SIGNAL FLOW for SCART



Select SCART OUTPUT MODE

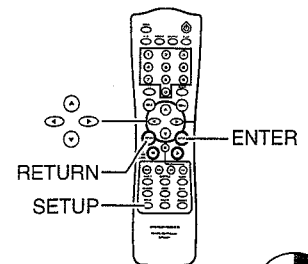
Select output mode



Pressing the **RETURN** button at any time, returns to the previous menu, setting other modes.

Function Setup

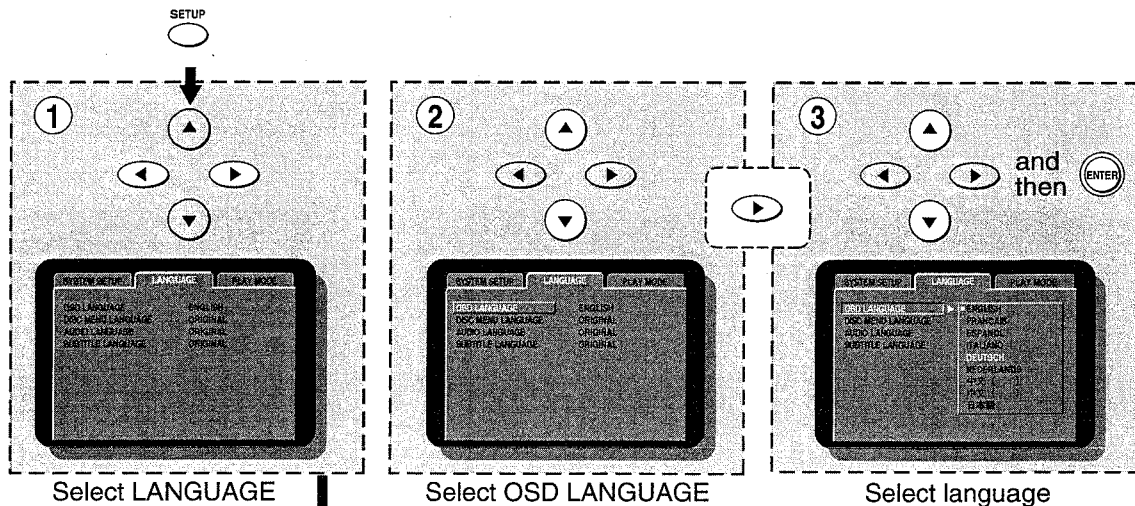
# Customizing the Settings (continued)



## Language Setting

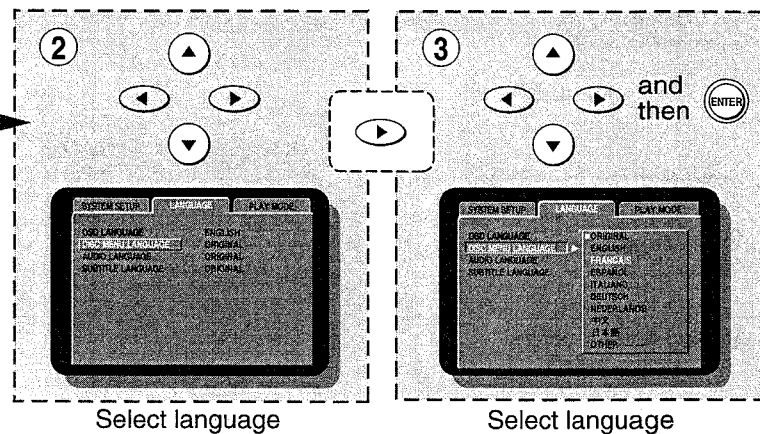
### OSD Language:

You can choose the language used for the On Screen Displays from English, French, Spanish, Italian, German, Dutch, Chinese and Japanese.

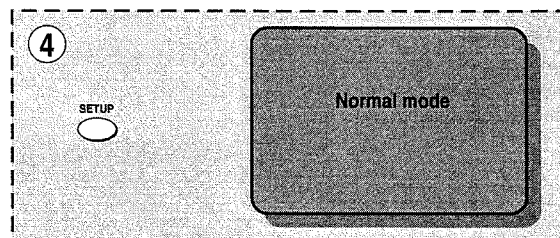


### DISC MENU LANGUAGE:

You can choose the language that the disc menu will be displayed in.



When finished



### Notes

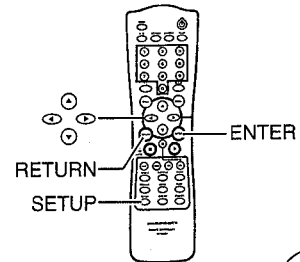
In step 3, to choose a language not listed in the language menu

Select **OTHER** and highlight the desired language code (see page 33) using the cursor up/down buttons.

Press **ENTER** to select.

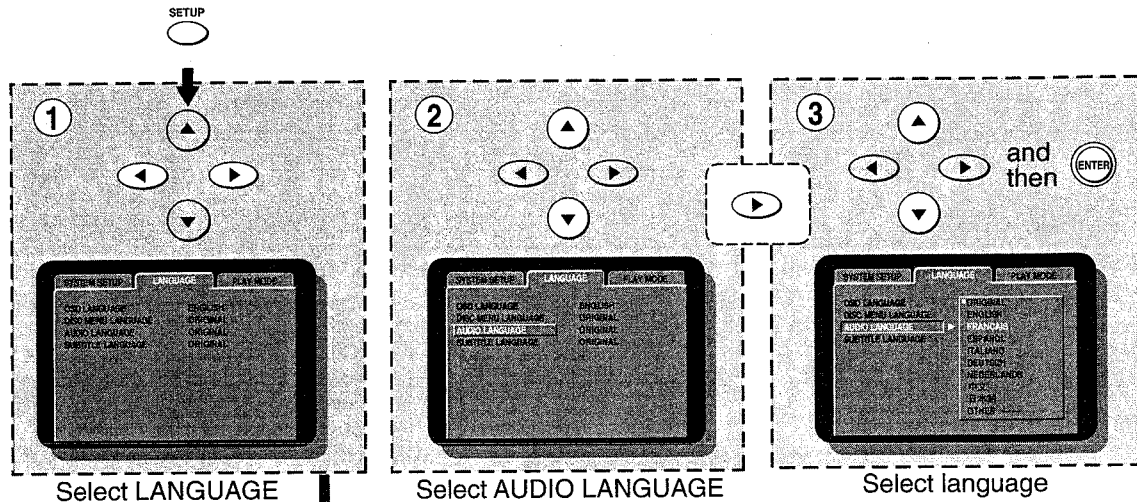
- Once a menu language is selected, the selection remains effective until you choose another language.
- You cannot change the menu language setting while playing a disc.
- The menu languages available on a DVD differ from disc to disc. If a particular disc does not contain the menu language of your choice, it will display the menus in its default language.
- Pressing the **RETURN** button at any time, returns to the previous menu.



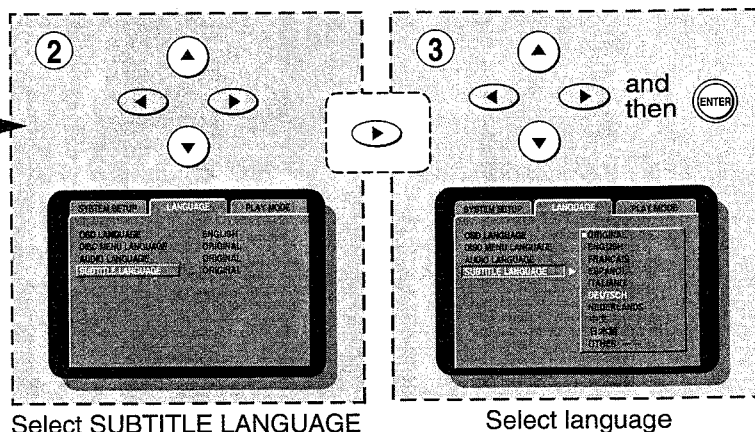


## SOUNDTRACK LANGUAGE:

You can select the soundtrack and subtitle languages from the LANGUAGE menus.  
(You can also select the languages supported by the currently loaded disc using the operation described on page 23.)

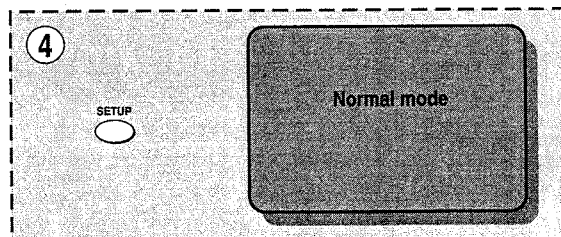


## SUBTITLE LANGUAGE:



- Pressing the **RETURN** button at any time, returns to the previous menu.

When finished



## Notes

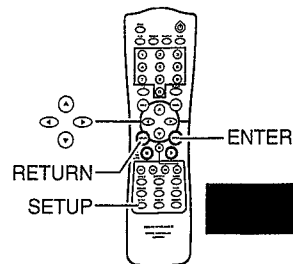
In step 3, to choose a soundtrack and subtitle language not listed in the AUDIO LANGUAGE menu and the SUBTITLE LANGUAGE menu (if a DVD disc provides the desired language)

Select **"OTHER"** and enter the desired language code (see page 33 for language codes) using the cursor up/down buttons. Press **ENTER** to select.

- The player stores the selected soundtrack and subtitle language and will use that language for subsequent discs.
- If soundtrack languages and subtitles are not recorded on the disc, this feature cannot be used.
- Some discs will automatically display or are supplied with closedcaption subtitles for viewers with hearing disabilities. For more details, refer to the information supplied with the disc.

Function Setup

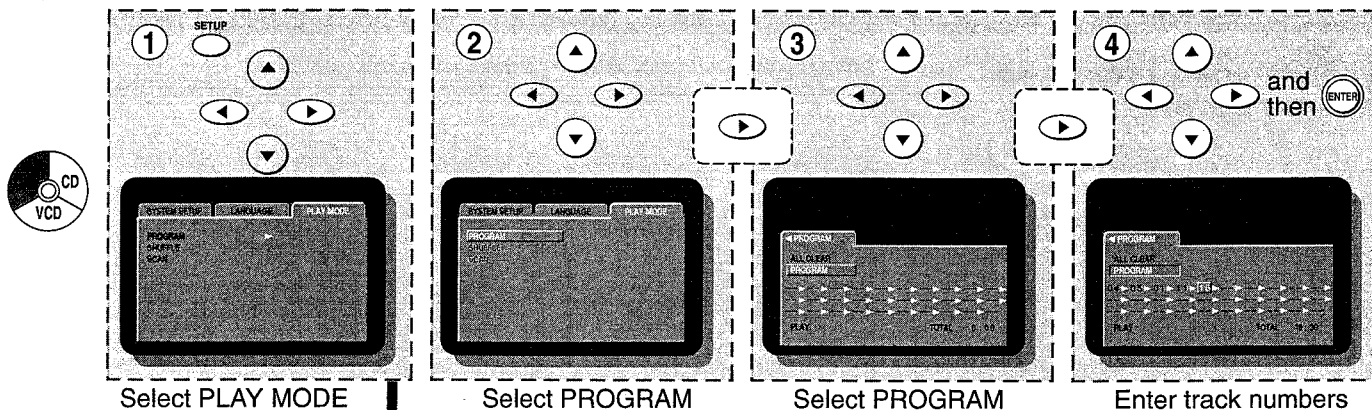
# Customizing the setting (continued)



## Play Mode Setting

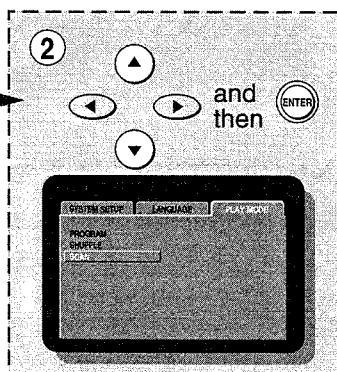
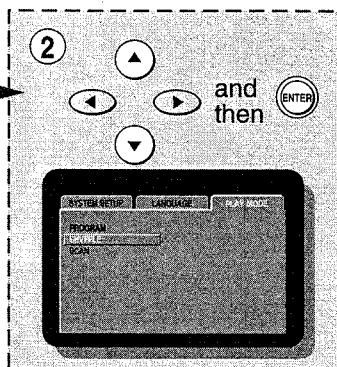
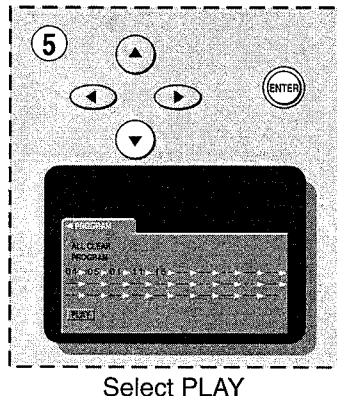
### Programmed play

To play back tracks in your favorite order.



### SHUFFLE

Tracks will be played back in a random order.



### SCAN

You can scan the first five seconds of each chapter or track on a disc to quickly browse the contents.



### Notes

- Some discs may cancel the DTS mode when Digest or Scan is activated.
- The DTS mode can be reset via the Disc menu.

- Total play time for all programmed tracks for CD and VCD discs is displayed in TOTAL.
- **Programming playback sequence in step 4:** Inserting a track number: Position the cursor over the track number to the right of where you want to make an insertion and then press **ENTER**. This will create a space at the cursor position where you can insert a new track number.

02 > 03 > 04 → 02 > 01 > 03 > 04

**Deleting a track number:** Position the cursor over the track number you wish to delete and then press the CLEAR button.

02 > 03 > 04 → 02 > 04

- PBC will be automatically set OFF when programming a track sequence for a VCD.
- The programmed track sequence is maintained until you press the open/close button for longer than one second or the POWER button on the remote control.

- You can also SHUFFLE play by pressing the SHUFFLE button on the DVD player.
- The player will exit SHUFFLE play if you press ■ during SHUFFLE playing.
- The player will resume normal play mode, if you press ► during SHUFFLE playing.

- When the chapter you wish to view is located, press ► to play the chapter.
- You can also scan by pressing the **SCAN** button on the DVD player.
- The player will resume normal play mode if you press ► during scanning.
- The player will exit Intro Scan if you press ■ during scanning.
- When the player is stopped, Intro Scan starts from the beginning of the disc. When playing a disc, Intro Scan starts from the beginning of the disc.
- Note that not all discs use the Intro Scan feature.

# Language Codes

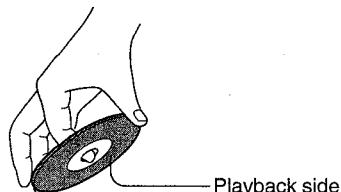
Code	Language name	Code	Language name	Code	Language name
AA	Afar	IW	Hebrew	SH	Serbo-Croatian
AB	Abkhazian	JA	Japanese	SI	Singhalese
AF	Afrikaans	JI	Yiddish	SK	Slovak
AM	Amharic	JW	Javanese	SL	Slovenian
AR	Arabic	KA	Georgian	SM	Samoan
AS	Assamese	KK	Kazakh	SN	Shona
AY	Aymara	KL	Greenlandic	SO	Somali
AZ	Azerbaijani	KM	Cambodian	SQ	Albanian
BA	Bashkir	KN	Kannada	SR	Serbian
BE	Byelorussian	KO	Korean	SS	Siswati
BG	Bulgarian	KS	Kashmiri	ST	Sesotho
BH	Bihari	KU	Kurdish	SU	Sundanese
BI	Bislama	KY	Kirghiz	SV	Swedish
BN	Bengali, Bangla	LA	Latin	SW	Swahili
BO	Tibetan	LN	Lingala	TA	Tamil
BR	Breton	LO	Laothian	TE	Telugu
CA	Catalan	LT	Lithuanian	TG	Tajik
CO	Corsican	LV	Latvan, Lettish	TH	Thai
CS	Czech	MG	Malagasy	TI	Tigrinya
CY	Welsh	MI	Maori	TK	Turkmen
DA	Danish	MK	Macedonian	TL	Tagalog
DE	German	ML	Malayalam	TN	Setswana
DZ	Bhutani	MN	Mongolian	TO	Tonga
EL	Greek	MO	Moldavian	TR	Turkish
EN	English	MR	Marathi	TS	Tsonga
EO	Esperanto	MS	Malay	TT	Tatar
ES	Spanish	MT	Maltese	TW	Twi
ET	Estonian	MY	Burmese	UK	Ukrainian
EU	Basque	NA	Nauru	UR	Urdu
FA	Persian	NE	Nepali	UZ	Uzbek
FI	Finnish	NL	Dutch	VI	Vietnamese
FJ	Fiji	NO	Norwegian	VO	Volap;k
FO	Faroese	OC	Occitan	WO	Wolof
FR	French	OM	(Afan) Oromo	XH	Xhosa
FY	Frisian	OR	Oriya	YO	Yoruba
GA	Irish	PA	Punjabi	ZH	Chinese
GD	Scots Gaelic	PL	Polish	ZU	Zulu
GL	Galician	PS	Pashto, Pushto		
GN	Guarani	PT	Portuguese		
GU	Gujarati	QU	Quechua		
HA	Hausa	RM	Rhaeto-Romance		
HI	Hindi	RN	Kirundi		
HR	Croatian	RO	Romanian		
HU	Hungarian	RU	Russian		
HY	Armenian	RW	Kinyarwanda		
IA	Interlingua	SA	Sanskrit		
IE	Interlingue	SD	Sindhi		
IK	Inupiak	SG	Sangho		
IN	Indonesian				
IS	Icelandic				
IT	Italian				

# Notes on Discs

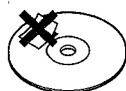
This section shows you how to handle, clean, and store discs.

## Handling Discs

- Do not touch the playback side of the disc.

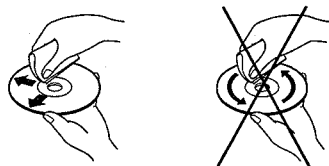


- Do not attach paper or tape to discs.



## Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth, then dry the disc with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners, or antistatic spray for vinyl LPs. These may damage the disc.

## Storing Discs

- Do not store discs in a place subject to direct sunlight or heat.
- Do not store discs in places subject to moisture and dust, such as in a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs may cause warping.

## About This Owner's Manual

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. Refer to the instruction notes of discs.

"Ⓢ" may appear on the TV screen during operation.

A red "Ⓢ" means the operation is not permitted by the DVD video disc.

## Playable Discs

This DVD player is able to play discs with any of the following markings:

Disc Type	Marking	Contents	size	Configuration
DVD		Audio + Video	12 cm	Single/ double layer
			8 cm	
Video CD		Audio + Video	12 cm	Single side
			8 cm	
Music CD		Audio	12 cm	Single side
			8 cm	

### The following discs are not playable:

- Any type of disc not listed above.  
Example: CD-ROM, CD-V, CD-G, Photo-CD, DVD-Audio, DVD-ROM or DVD-RAM etc.
- DVD discs whose region codes do not match the player's region code, which is labeled on the unit's back panel. (Discs with region code "ALL" can be played on all players.)
- Even if the disc is a DVD disc, if it is purchased in an area other than the official sales area or if it is a disc for business use, it may not be possible to reproduce it.



Region codes are assigned as follows:

Region Code	Region (approximate)
1	USA, Canada
2	Japan, Europe (includes some parts of Eastern Europe), Middle East
3	East Asia, Southeast Asia
4	Australia, New Zealand, Central and South America
5	Eastern Europe, C.I.S., Africa (except South Africa and Egypt), India
6	China (except Hong Kong)
ALL	all regions

- This DVD player has copy limitation technology installed. Therefore, if a video recorder is connected to the unit to make copies of discs, the playback images of copied discs will not be clean.

## Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD video discs are copy protected, and any recordings made from these discs will be distorted.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

# Before Calling Service Personnel

Check the following guide for the possible cause of a problem before requesting service.

## Symptoms and Correction

Symptom	Cause	Correction
No power	• Power plug is loose	• Push the power plug in firmly.
	• Remote control batteries are exhausted.	• Replace with new batteries.
Playback does not start	• No disc.	• Load a disc.
	• Disc is upside down.	• Load the disc label side up.
	• Viewing restriction level is selected.	• Cancel parental guide or change the restriction level.
	• A disc with an invalid region code is loaded.	• Load a disc whose region code matches the player's code.
No sound	• Speaker cables are not connected securely.	• Check that cables are secure.
	• Incorrect operation of amplifier.	• Check amplifier.
	• Multi-speed playback, fast forward/reverse playback, etc. is in operation.	• Audio is not output during special playback modes.
No picture or sound from TV	• TV input is incorrectly selected.	• Change TV to video mode.
	• Wrong type of disc is loaded.	• Load correct disc.
	• Loose connections.	• Check that cables are secure,
Picture disturbance Sound is distorted or cuts out	• Disc is dirty.	• Clean the disc.
	• Scratched disc.	• Replace with new disc.
	• Warped disc.	• Replace with new disc.
	• Fast forward/reverse playback is in operation.	• There will be some disturbance during fast forward/reverse.
Angle does not change even when switched	• No multi-angle images on disc.	• Not all discs contain multi-angle images.
Selected subtitle or soundtrack is not played back	• Selected language is not recorded on disc.	• When the language is not available, playback will be in the original language.
Subtitles do not appear on the screen	• The SUBTITLE is set to OFF.	• Press the remote control's SUBTITLE button for longer than one second.
Remote control does not operate	• Remote control is not pointed at main unit.	• Point the remote control at the DVD player.
	• Obstacle between remote control and main unit.	• Remove the obstacle and point the remote control at the main unit.
	• Batteries are exhausted.	• Replace with new batteries.

# Specifications

## DVD Video Player/Outputs/Supplied Accessories

### [DVD Video Player]

Power supply	230 V AC, 50 Hz
Power consumption	22 W
Mass	4.0 Kg
External dimensions	440 mm × 87 mm × 304 mm (W/H/D)
Signal system	Standard NTSC (525/60)/PAL (625/50)
Laser	Semiconductor laser, wavelength 655 nm (DVD)/790 nm (CD)
Frequency range (digital audio)	DVD linear sound : 48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz Audio CD : 4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 110 dB
Audio dynamic range (digital audio)	More than 100 dB
Harmonic distortion (digital audio)	Less than 0.0025 %
Wow and flutter	Below measurable level (less than ±0.001 % (W.PEAK))
Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal

### [Outputs]

Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack × 2
S video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin × 1 (C) 0.286 V (p-p), 75 Ω (NTSC)/(C) 0.3V (P-P), 75 Ω (PAL)
RGB output	0.7 V (p-p), 75 Ω, SCART × 1
Audio output (OPTICAL)	Optical connector × 1
Audio output (COAXIAL)	0.5 V (p-p), 75 Ω, pin jack × 1
Audio output	2.0 V (rms), 330 Ω, pin jack (L, R) × 2
Headphone terminal	32 Ω, (10mW), impedance; more than 8 Ω

### [Supplied Accessories]

Audio/video cable .....	1
Remote control (D-BUS) cable .....	1
Remote control .....	1
Batteries (AA) .....	2

- Designs and specifications are subject to change without notice.

COUNTRY	COMPANY	ADDRESS
AUSTRALIA	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Fugnerova 1, 67801 Blansko, Czech Republic
DENMARK	Hi-Fi Klubben Denmark	Aboulevariden 1, DK-8000 Arhus C., Denmark
DUBAI	V.V. & SONS	P.O. Box 105, Dubai, U.A.E.
ESTONIA	Audio International Baltic	Lo Hu 12, EE0026 Tallin, Estonia
F.Y.R.O.M.	T.P. KODI	ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonija
FINLAND	Hi-Fi Klubi Finland	Uudenmaankatu 4-6, SF-00120 Helsinki, Finland
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GERMANY	Marantz Deutschland	Hakenbusch 3, 49078 Osnabrück, Germany
GREECE	Adamco S.A.	188, Hippocratous Street, 11471 Athens, Greece
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HONG KONG	Marantz Asia Ltd.	Unit 1706, Metroplaza II, 223 Hing Fong Road, Kwai Fong, N.T., Kowloon, Hong Kong
HUNGARY	Infobox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	Radiobudinn HF	Skipholt 19, P.O. Box 424, 121 Reykjavik, Iceland
INDIA	Marantz India	c/o Philips India Ltd., Plot 80, Bhosari Industrial Estate Pune - 411026, India
IRAN	Home Co.	5th floor no 878 Philips Building Enghelab ave, P.O. 11365/7844 Tehran, Iran
IRELAND	Marantz Ireland	Clonskeagh, Dublin 14, Ireland
ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
ITALY	Marantz Italy	Via Casati 23, 20052 Monza (Milano), Italy, Servizio Consumatori 1678-20026, Numero Verde
JAPAN	Marantz Japan Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
KOREA	Mk Enterprises Ltd.	121-210, 2F Shinhan Bldg., 247-17 Seokyo-dong, Mapo-ku, Seoul, Korea
KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	A Accapella Ltd.	Ausros, Vartu G5, Pasazo Skg., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	102 Jalan SS 21/35, Damansara Utama, 47400 Petaling Jaya, Selangordarul Ehsan, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
NETHERLANDS	Marantz Trading	A division of Marantz Europe B.V., Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
NEW ZEALAND	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
NORWAY	Hi-Fi Klubben Norway	Lillegrehen 7, N-0159 Oslo, Norway
OMAN	Mustafa & Jawad Trading CO.	P.O. Box 1918, Ruwi, Oman
POLAND	Philips Polska Sp. z o. o.	Al. Jerozolimskie 195b, 02 222 Warszawa, Poland
PORTUGAL	Corel2	Comércio de Electrónica Lda., Av. Luís Bivar, No 85 A, 1050 Lisboa, Portugal
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PROFESSIONAL U.S.A.	Marantz Professional Products	Distributed by: Superscope Technologies Inc., 1000 Corporate Blvd. Ste.D, Aurora, Illinois
QATAR	Almana & Partners W.W.L.	P.O. Box 49, Doha, Qatar
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RUSSIA	Trade Company SV	Bld. 2, 7 Montazhnaya Street, 107497 Moscow, Russia
SAUDI ARABIA	Ultimate Fidelity	Sameria Comm. Center, Roadah Dist., P.O. Box 7760, Jeddah 21472, Saudi Arabia
SINGAPORE	Forward Marketing (S) Pte. Ltd.	Wo Kee Hong Centre, 29 Leng Kee Road, Singapore 159099, Singapore
SLOVAKIA	Audio International Slovakia	Nam. SNP 10, 96001 Zvolen, Slovakia
SLOVENIA	Bofex	Smartinska 152, HALA V/3, 61000 Ljubljana, Slovenia
SOUTH AFRICA	Coherent Imports (PTY) Ltd.	P.O. Box 1614, Alberton, 1450, South Africa
SPAIN	Marantz Spain	Martinez Villergas 2, Apartado 2065, Madrid 28027, Spain
SWEDEN	Hi-Fi Klubben A.B.	Tegnersgatan 21, S-412 52 Gotenborg, Sweden
SWITZERLAND	Sound Company AG	Postfach, 8010 Zürich, Switzerland
TAHITI	Covecolor	Av. Prince Hinoi, Cours de l'union sacré, P.O. Box 2334, Papeete, Tahiti
TAIWAN	Pai-Yuing Co. Ltd.	6th No 148 Sung Kiang Road, Taipei 10429, Taiwan R.O.C.
THAILAND	MRZ Standard Co. Ltd.	746-750 Mahachai Road, Wangburapa, Bangkok 10200, Thailand
TURKEY	Penta Elektronik	Sanayi Ve Ticaret Ltd. Sti., Selvi Kokak, No. 4/1, Senikkoy, 34810 Florya, Istanbul, Turkey
U.K.	Marantz Hifi UK Ltd.	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
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YUGOSLAVIA	ITM	Ljutice Bogdana la, Belgrade, Yugoslavia
EXPORT	Marantz Trading	A division of Marantz Europe B.V., Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
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Printed in Japan

99/12 MITs 383K851320

## SVENSKA

### GARANTI

Angående garanti, kontakta din lokala Marantz handlare.

### SPAR KVITTOT

Kvittot är din Inköpshandling över Inköp av en värdefull vara. Det ska placeras på ett säkert ställe och hänvisas till vid försäkringsfrågor eller vid korrespondens med Marantz.

### VIKTIGT

När garantiservice åberopas är det konsumentens ansvar att visa datum för inköp. Ditt kvitto eller din faktura är ett tillfredsställande bevis.

## DANSK

### GARANTI

Henvend dem til Deres MARANTZ-forhandler angående information om garantien.

### GEM DERES KVITTERING

Deres købskvittering er Deres varige bevis på et dyrt køb. Den bør gemmes godt og anvendes som bevis, hvis De vil tegne en forsikring, eller hvis De kommunikerer med Marantz.

### VIGTIGT

Det påhviler forbrugeren at skaffe bevis for købet og købsdatoen, hvis han eller hun ønsker garantiservice. Deres købskvittering eller faktura er et fulgdyldigt bevis herpå.

## LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

### LASER

Type	semiconductor laser GaAlAs
Wave length	655 nm (DVD) 790 nm (VCD/CD)

**CAUTION** VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM (WARNING LOCATION: INSIDE ON LASER COVERSIELD)



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